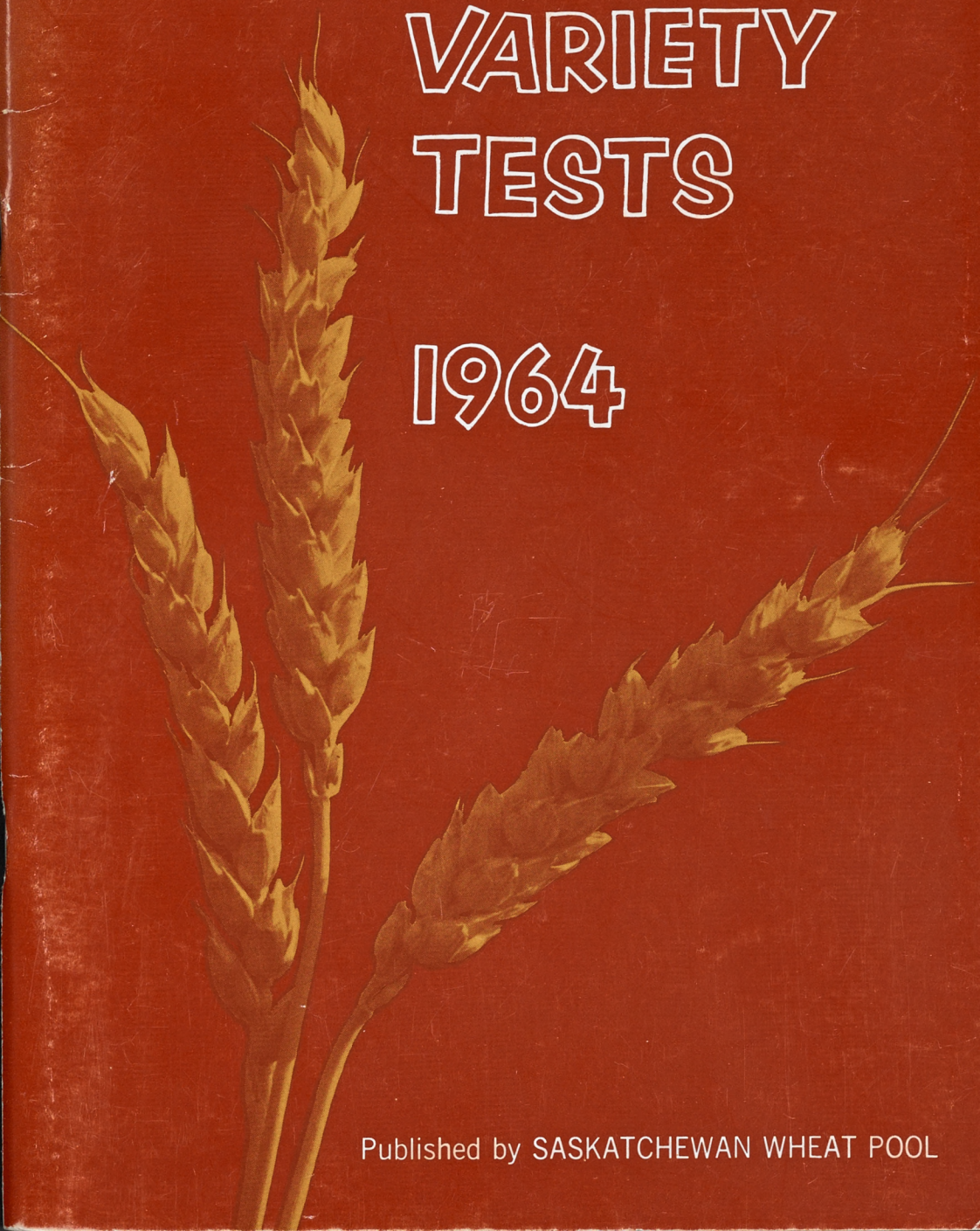


# FERTILIZER TRIALS VARIETY TESTS

1964



Published by SASKATCHEWAN WHEAT POOL



**Saskatchewan Wheat Pool**

# **GRAIN RESEARCH TESTS**

**OATS, FLAX**

**FERTILIZER ON SUMMERFALLOW**

**FERTILIZER ON STUBBLE**

**1964**



**Published by**

**SASKATCHEWAN WHEAT POOL**

**January, 1965**





# FOREWORD

by the President of Saskatchewan Wheat Pool

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*For 29 years Saskatchewan Wheat Pool carried on a program of comparative testing of grain varieties under the varied conditions which exist in our province. During that period an uncounted number of grain varieties were planted and harvested by some 9,000 young farm men and women, throughout the grain growing portion of Saskatchewan.*

*As times and conditions change over the years forward-looking organizations must change with them if they are to serve the needs and desires of members. In recent years the Wheat Pool has given careful consideration to its program of variety testing to see whether it was meeting adequately the needs which exist under today's conditions. As a result a decision has been made to discontinue it, with the completion of the 1964 project. This decision was not taken lightly, because the program had yielded information and demonstration value over a long period. However, the techniques of agricultural research are constantly becoming more complex and thus more difficult for young people without specialized training. At the same time the demonstration value of large numbers of local tests tends to diminish as producers find information readily available through modern means of communication.*

*We have valued highly the spirit of willing co-operation displayed over the years by the young farm men and women who supervised these tests. Without such co-operation a project such as this would not have been possible. On behalf of Saskatchewan Wheat Pool I would like to express our appreciation to those who conducted tests in 1964 and to those who made a similar contribution in past years.*

*Chas. G. Gilling*



# INTRODUCTION

Each year since 1935 the Saskatchewan Wheat Pool has carried on a series of tests in which grain varieties were grown side by side in a large number of locations throughout the province. The objective of the project in most years was to compare new varieties with those in common use. In some years several different grains were grown together to compare their value in terms of cash value per acre or in terms of their relative value for livestock feed.

In 1964 because of the mounting interest in the use of fertilizer in this province, a new type of project was initiated for one part of the program. Fertilizer was applied at different rates to a single variety of wheat to test the response under varied growing conditions. Some of these fertilizer tests were grown on land that had been summerfallowed in 1963, and others were seeded on land which had grown a crop the previous year. In the case of summerfallow tests a single type of fertilizer (11-48-0) was used at varying rates. On the stubble tests various types and rates of fertilizer were used. No tests of wheat or barley were grown this year because of a lack of suitable new varieties, but five oat varieties and five flax varieties were grown in all parts of the province.

The following pages contain a report on the 1964 testing program. For the convenience of those readers who may not wish to study the entire report it has been prepared in a manner which will assist one who is particularly interested in a certain area or a particular crop. A table of contents on the following page indicates the location of the various sections, tables and charts. An alphabetical index at the end of the booklet will assist the reader to find any individual test. For quick reference, yield information in graphic form is shown on page 12 for fertilizer tests on summerfallow, page 18 for fertilizer tests on stubble, page 22 for oat varieties and page 25 for flax varieties. A brief summary of conclusions can be found on page 5.

The following table indicates the number of tests seeded in 1964 and the contents of each:

<u>Project</u>	<u>No. of Tests</u>	<u>Basis of Comparison</u>
Fertilizer on Summerfallow	76	A single variety of wheat with 11-48-0 fertilizer applied at the following rates per acre: zero, 30 pounds, 40 pounds, 50 pounds, 60 pounds.
Fertilizer on Stubble	71	A single variety of wheat with the following application of fertilizer: Zero, 23-23-0 at 65 pounds, 23-23-0 at 87 pounds, 27-14-0 at 148 pounds, a double application with 11-48-0 at 40 pounds placed with the seed plus 33.5-0-0 at 240 pounds broadcast on the soil surface.
Oats	73	Garry, Rodney, Russell, Glen, Pendek
Flax	77	Redwood, Norland, Bolley, S-5436, Summit.
Total	297	
Selkirk wheat was used in those tests located in Wheat Pool districts 1, 6, 7, 8, 9, 14.		
Canthatch was used in the remainder of the province.		

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# Summary Of Results

## Review of the 1964 Season

General prospects for the crop were quite encouraging in the spring of 1964. Moisture conditions were generally good and many farmers planted stubble crops on the strength of these prospects. However strong winds during and after seeding time dried out the surface and in some areas of the province caused damage by soil erosion. The dry seed bed in many areas of the province resulted in poor germination. In some fields part of the seed emerged at the normal time and the remainder lay dormant in the soil for several weeks, causing grain to be very uneven. The southern part of the province received rain in June but the northern districts remained extremely dry, and crops deteriorated severely. Cool weather in early July slowed the decline somewhat. It was not until late in the month that rain fell in northern areas, and in most cases it was then too late to be of much benefit to the crop. In the south-east the crop received adequate moisture and yields were good although frost in August caused considerable damage to grades. The south-western area started the season with very good prospects, but in the latter part of the season crops declined rapidly due to continued lack of moisture. In a strip from Prince Albert south through Saskatoon to the Moose Jaw area conditions were extremely dry throughout the summer and yields were very poor. Harvest operations in the south proceeded without difficulty, but in the north prolonged wet weather severely delayed harvest and caused much weathering damage.

Variety and fertilizer tests in the province suffered from the same conditions as crops in general. Because of poor germination an unusually large number of tests, especially those on stubble, had to be abandoned. In the north, quite a number of flax tests were severely frozen before they matured.

To the surprise of most observers, end of the season estimates placed the 1964 wheat crop in Saskatchewan at 348 million bushels, the fourth largest in the history of the province.

## Fertilizer Tests on Summerfallow

The 1964 season was not a good one to test the response of grain to the application of fertilizer. Delayed and uneven germination in the spring, extreme drought in some areas, frost damage, and unfavorable harvest weather all contributed to a difficult situation. Because of these conditions it is difficult to draw valid conclusions from the results of tests this year. In most districts yield increases resulted from the application of fertilizer, but when subjected to statistical analysis few of these increases can be considered significant.

## Fertilizer Tests on Stubble

The adverse growing conditions referred to in the preceding section also applied to the fertilizer tests conducted on stubble in 1964. Dry surface soil caused delayed and uneven germination and prevented the plants from gaining the expected assistance from fertilizer in the early growing stage. Some supervisors reported that portions of the fertilizer broadcast on the surface could still be seen at harvest time. Under these conditions it is doubtful whether yields obtained can give a true indication of the response of wheat plants to the application of fertilizer. While there were yield increases in a number of districts, particularly at the lower rates of application, few of these were significant by statistical standards.

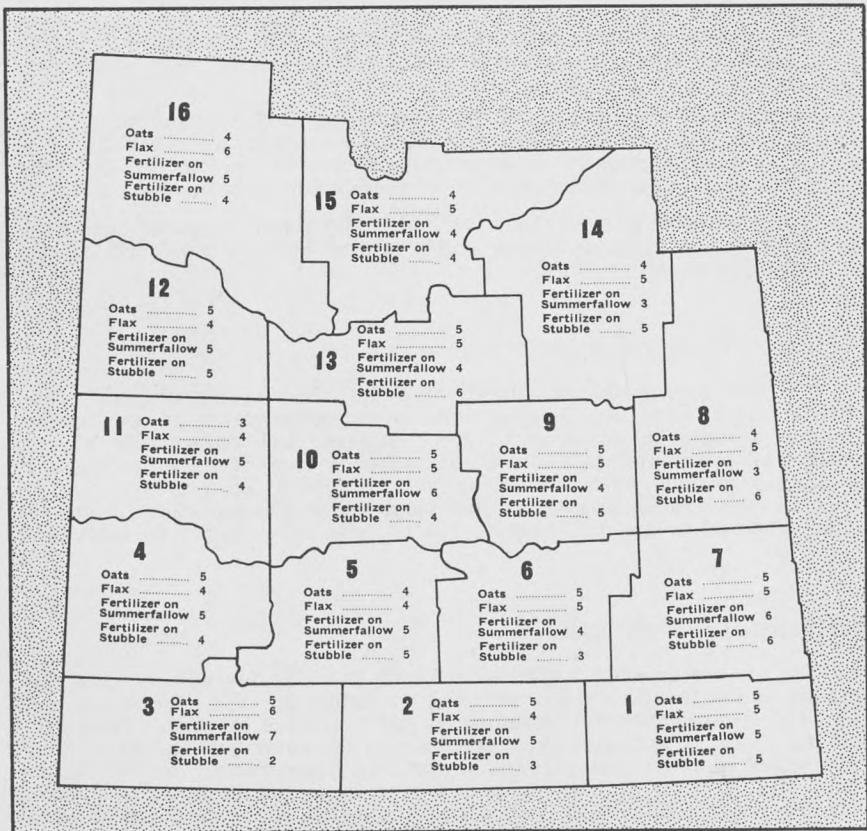


## Oat Tests

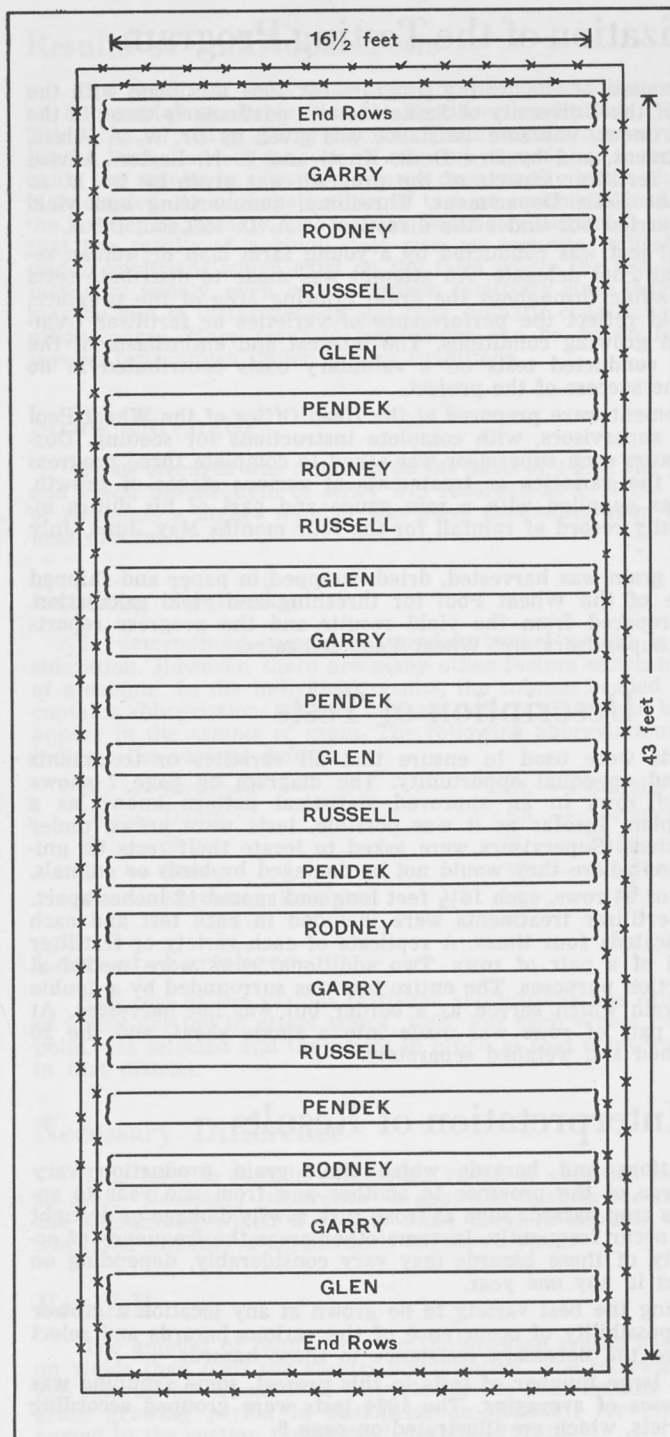
Under the conditions which prevailed in 1964 Glen oats produced relatively good yields over a considerable area of the province, particularly in the southern and eastern districts, and to a somewhat lesser degree in the north and north-west. Garry yielded well in the south-east and north central districts. Russell yielded reasonably well across the south of the province but was not generally outstanding in the north. Pendek performed well in a few districts but did not appear to be widely adapted. Rodney, the latest maturing variety, did not yield notably in 1964.

## Flax Tests

Flax yields varied widely from one district to another in 1964. Redwood showed to best advantage in southern and eastern districts while the unlicensed variety S-5436 appeared to be more adapted to central and northern districts. Norland yielded relatively better in the north than in the south or centre, while Summit showed up quite well in the south. Bolley was not outstanding in 1964 tests.



MAP SHOWING DISTRIBUTION OF TESTS IN 1964



#### PLAN OF TEST

The accompanying diagram shows the arrangement of a typical oat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. Note that each variety is repeated (or replicated) four times in what is known as a randomized block pattern designed to accommodate any minor differences in soil or moisture conditions within the area of the test. The crossed lines represent border rows of other grain. A two-foot pathway was left between the test and the surrounding field. Flax and fertilizer tests were arranged in a similar manner.

# Organization of the Testing Program

General organization of the testing program for 1964 was done with the advice of officials of the University of Saskatchewan, particularly those in the Crop Science Department. Valuable assistance was given by Dr. W. J. White, head of the department, and by Drs. D. R. Knott and E. N. Larter. Advice with regard to the fertilizer aspects of the program was given by Dr. D. A. Rennie, head of the Soils Department. Threshing, summarizing and yield calculations were carried out under the direction of A. D. McLeod, B.S.A.

Each individual test was conducted by a young farm man or woman selected by the Wheat Pool delegate. An attempt was made to distribute tests as uniformly as possible throughout the grain growing area of the province, so the results would reflect the performance of varieties or fertilizer treatments under varied growing conditions. The interest and enthusiasm of the young people who conducted tests on a voluntary basis contributed in no small measure to the success of the project.

Seed and equipment were prepared at the Head Office of the Wheat Pool and mailed to the supervisors, with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties or treatments at various stages of growth. Each supervisor was supplied with a rain gauge and part of his duties included keeping a daily record of rainfall for the four months May, June, July and August.

In the fall the grain was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared from the yield results and the progress reports received from test supervisors and Wheat Pool delegates.

## Description of Tests

Several methods were used to ensure that all varieties or treatments in any one test had an equal opportunity. The diagram on page 7 shows the arrangement of rows in an approved statistical pattern known as a randomized block plan. Insofar as it was possible, tests were grown under normal field conditions. Supervisors were asked to locate their tests on uniform soil in locations where they would not be damaged by birds or animals.

A test consists of 44 rows, each  $16\frac{1}{2}$  feet long and spaced 12 inches apart. Five varieties or fertilizer treatments were included in each test and each was repeated (replicated) four times. A replicate of each variety or fertilizer treatment consisted of a pair of rows. Two additional rows were seeded at each end for protection purposes. The entire test was surrounded by a double row of different grain which served as a border but was not harvested. At harvest time each pair of rows was made into a single sheaf, and the 20 sheaves were threshed and weighed separately.

## Interpretation of Results

Growing conditions and hazards which limit grain production vary widely from one area of the province to another and from one year to another. In some areas crop hazards such as frost, rust, sawfly damage or drought can be expected to occur frequently. In some other areas the frequency of occurrence, or severity of these hazards may vary considerably, depending on particular conditions in any one year.

When considering the best variety to be grown at any location a grower must consider the possibility of occurrence of the various hazards and select varieties which have the necessary resistance to these hazards.

Because of the large number of tests in this project, some grouping was necessary for purposes of averaging. The 1964 tests were grouped according to Wheat Pool districts, which are illustrated on page 6.



## Results of Individual Tests

The results of individual tests appear in the following tables: Fertilizer on Summerfallow, Table No. 25; Fertilizer on Stubble, Table No. 26; Oats, Table No. 27; Flax, Table No. 28. These results are arranged according to Wheat Pool districts (shown on map on page 6), so a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical list of test supervisors is included at the back of the booklet so an individual test can be readily located. It should be emphasized that the results of a single test give an accurate indication of yields only under conditions which exist on the farm where the test was located. Results may vary widely, even in tests grown relatively close together. This variation may be due to differences in soil type, climatic conditions, date of seeding or other causes. More accurate conclusions can be drawn from the average of several tests grown under similar conditions.

## Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

## Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain. The following abbreviations have been used to indicate the various defects:

Bl. — Bleached	St. — Starchy
Dp. — Damp	Sp. — Sprouted
Er. — Ergot	T. — Thin
G. — Green	W. — Weather stained
S. — Shrunken Kernels	

## Cost of Fertilizer

The cost of the various fertilizer applications was calculated on the basis of prices per ton in effect May 1, 1964. For each Wheat Pool district a central point was selected and the prices in effect at that point were used for all tests in that district.

## Necessary Difference

This term is used in comparing yields of varieties in a single test or in an area. "Necessary Difference" is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the same test to be considered significantly higher in yield.

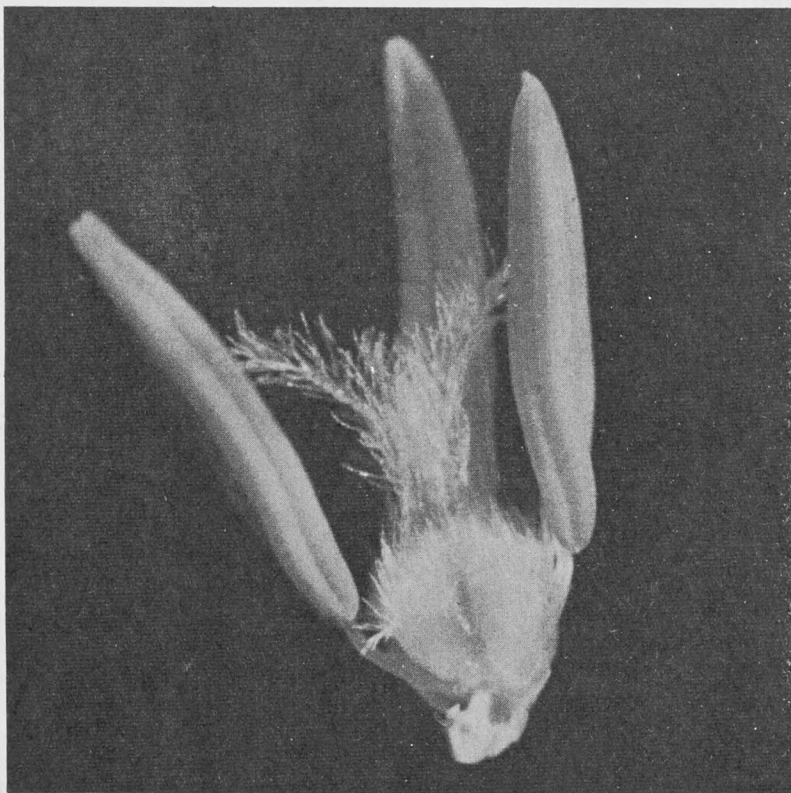
## Rainfall

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by Wheat Pool districts for the four months which represent the grain growing period in Saskatchewan. Rainfall for individual tests is reported in the section "Individual Results of Tests."

**Table No. 1—Average Monthly Rainfall in Inches During Period May-August  
Summarized by Wheat Pool Districts**

District	May	June	July	August	Total
1 .....	1.62	3.34	2.59	1.48	9.00
2 .....	1.78	2.82	1.97	.49	7.02
3 .....	1.47	3.54	1.25	.76	6.95
4 .....	1.36	2.43	.55	1.47	5.64
5 .....	1.52	1.89	1.48	.82	5.72
6 .....	2.03	2.44	2.21	1.21	7.91
7 .....	3.05	3.15	2.80	2.65	11.52
8 .....	2.11	1.49	3.60	3.17	10.58
9 .....	2.07	1.19	2.79	2.42	8.51
10 .....	1.85	1.28	1.33	1.03	5.63
11 .....	1.90	.85	1.04	2.44	6.35
12 .....	2.06	1.06	1.59	2.63	7.43
13 .....	1.55	1.08	2.27	2.11	6.97
14 .....	1.16	1.22	2.76	3.99	9.15
15 .....	.66	.28	1.95	3.20	6.17
16 .....	1.62	.25	2.32	3.18	7.91

This table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.



The delicate beauty of the wheat blossom can be appreciated only when enlarged.

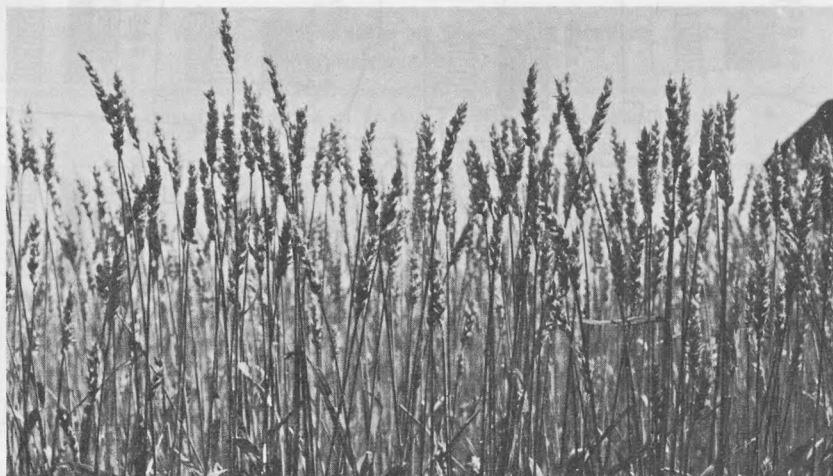
# Fertilizer Tests on Summerfallow

A total 76 tests were seeded on summerfallow in 1964. In each test a single variety of wheat was grown with four different rates of fertilizer application, and without fertilizer to provide a check. Selkirk wheat was used in those tests located in the east and north-east (Wheat Pool districts 1, 6, 7, 8, 9, 14). Canthatch was used in tests in other parts of the province.

## APPLICATION OF FERTILIZER

There are on the market today a considerable number of types or formulations of fertilizer for field application. Each of these formulations contain plant nutrients in different proportions and is therefore suited to the requirements of particular soil conditions or to the needs of a certain crop. In order to provide a standard of comparison and to establish quality standards for the different products, it is required by law that the guaranteed analysis be shown on the bag in terms of the percentage of nitrogen, phosphate and potash. The first number indicates the content of nitrogen, the second indicates phosphate and the third indicates potash. For example, ammonium phosphate is identified by the analysis 11-48-0 which indicates that it contains 11 per cent nitrogen, 48 percent phosphate and no potash.

For crops seeded on summerfallow land it is generally considered that 11-48-0 is the most useful formulation. Therefore in planning the testing project for 1964, only this formulation was used in the summerfallow tests. The aim was to discover the yield response produced by different rates applied to a single wheat variety at various locations in the province. When the seed was prepared the appropriate amount of fertilizer for each row was placed in an envelope, and attached to the envelope of seed for that row. In each test fertilizer was applied at four different rates: 30, 40, 50, and 60 pounds per acre. On the remaining rows no fertilizer was applied. The supervisor was asked to hoe a trench, plant the seed, and then scatter the fertilizer in the trench in much the same manner as if it had been placed with a seed drill. This method ensured that the fertilizer was in close proximity to the seed.



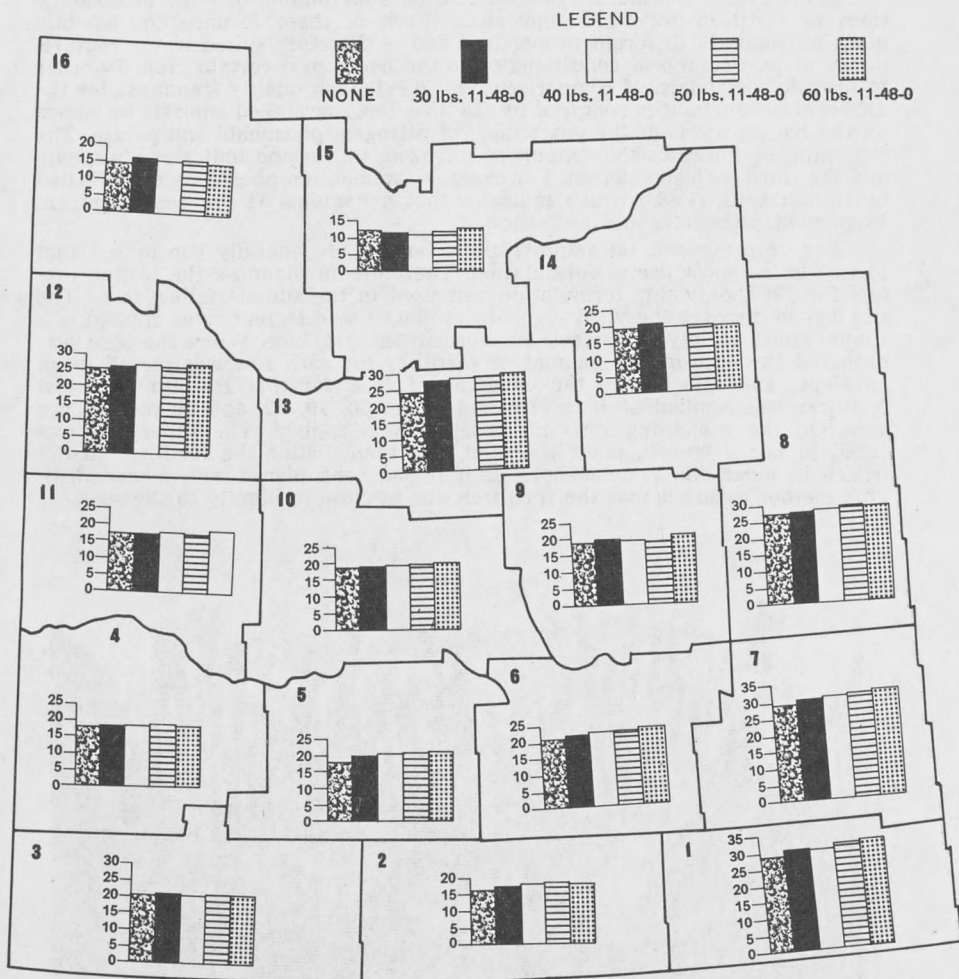
Although much of the province was drought stricken in 1964, some crops in the east and south-east yielded well.



# Yields

A considerable degree of caution is necessary when drawing conclusions from the yield results of fertilizer tests this year. The grain plant gets its greatest benefit from fertilizer during the first few weeks after germination, when its roots absorb the plant nutrients and make a rapid early growth during the cooler part of the season. In many parts of the province this year high winds at seeding time dried out the top soil. As a result the fertilizer remained undissolved and unavailable to the grain plants. In some cases the seeds did not germinate for a considerable period. Under these conditions we might expect a less than normal response to the application of fertilizer.

Table No. 2 indicates that in most districts there was a very slight response to fertilizer but in nearly all cases the increase was not significant. When one considers the cost of the fertilizer applied, **under the conditions which prevailed in 1964**, it is difficult to justify its use, based on these tests.



GRAPH SHOWING YIELDS OF WHEAT RESULTING FROM APPLICATION OF FERTILIZER TO SUMMERFALLOW CROP.

**Table No. 2—Average Yields in Bushels Per Acre Summarized by Districts**

Wheat Pool District	No. of Satisfactory Tests	Application of 11-48-0 Fertilizer on Summerfallow					Necessary* Difference in bushels
		Zero	30 lbs	40 lbs	50 lbs	60 lbs	
1	5	29.0	30.5	30.1	31.8	32.3	1.31
2	2	16.1	17.5	18.3	18.6	18.1	2.25
3	7	20.6	20.8	20.3	20.8	20.8	N.S.
4	4	17.7	18.1	18.5	19.4	18.9	N.S.
5	4	17.8	20.0	20.5	20.8	20.9	1.44
6	2	21.1	22.1	23.1	22.8	24.0	1.58
7	5	29.5	31.7	32.2	32.6	32.7	2.16
8	1	27.1	27.2	28.1	27.8	29.0	N.S.
9	3	18.7	19.8	19.5	19.4	20.2	.60
10	5	18.0	18.8	19.6	19.7	20.0	N.S.
11	5	17.0	17.0	17.6	17.1	18.7	N.S.
12	5	25.9	26.6	27.3	26.6	27.5	N.S.
13	4	24.7	27.8	28.4	28.5	29.4	2.03
14	2	19.0	20.1	19.5	19.7	19.4	N.S.
15	4	12.2	11.8	11.7	12.5	13.0	N.S.
16	3	14.9	15.5	15.2	15.4	15.1	N.S.

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

## Time of Maturity

It will be noted from the following table that in some districts the fertilized rows matured one or more days earlier than unfertilized rows. In other districts there appeared to be little or no difference in maturity. Where there was a difference it appeared to be between the fertilized and unfertilized rows with no apparent distinction among the various rates of application.

**Table No. 3—Average Number of Days from Seeding to Ripening Summarized by Districts**

Wheat Pool District	Application of 11-48-0 Fertilizer on Summerfallow				
	Zero	30 lbs	40 lbs	50 lbs	60 lbs
1	91	91	91	91	91
2	100	100	100	100	100
3	100	99	99	99	99
4	88	88	88	88	88
5	95	95	95	95	95
6	92	89	89	89	89
7	95	95	94	94	95
8	—	—	—	—	—
9	84	84	84	84	84
10	92	92	92	92	92
11	86	84	84	85	84
12	103	101	101	101	100
13	101	101	101	102	102
14	104	104	104	104	104
15	94	94	94	94	94
16	114	114	114	114	114

## Plant Height

There was very little consistent difference in height of plants as a result of fertilizer application.

**Table No. 4—Average Height of Plants in Inches Summarized by Districts**

Wheat Pool District	Application of 11-48-0 Fertilizer on Summerfallow				
	Zero	30 lbs	40 lbs	50 lbs	60 lbs
1	42	41	41	42	41
2	22	24	24	23	23
3	24	24	24	24	24
4	21	21	21	21	22
5	25	25	25	24	25
6	29	31	31	31	31
7	38	38	38	38	38
8	—	—	—	—	—
9	18	20	20	20	20
10	27	27	28	28	28
11	21	22	22	22	22
12	28	26	28	29	28
13	25	26	26	22	26
14	29	29	30	29	29
15	18	19	17	17	18
16	17	18	19	18	20

## Straw Strength

The table below indicates no significant straw weakness in any district, and the relative strength of unfertilized rows and those fertilized at different rates shows no consistent pattern.

**Table No. 5—Average Straw Strength  
On the Basis of 1 (Strong) to 9 (Weak) Summarized by Districts**

Wheat Pool District	Application of 11-48-0 Fertilizer on Summerfallow				
	Zero	30 lbs.	40 lbs	50 lbs	60 lbs
1	4.7	4.4	4.7	4.3	4.0
2	4.0	3.8	3.9	3.8	3.9
3	2.7	2.7	2.7	2.6	2.3
4	2.4	2.3	2.2	2.5	2.0
5	2.7	2.8	2.7	2.8	2.9
6	2.0	2.2	2.4	2.3	2.2
7	3.0	3.0	2.8	2.9	2.7
8	—	—	—	—	—
9	2.2	2.4	1.8	2.3	2.2
10	1.6	1.6	1.6	1.5	1.6
11	2.8	2.3	2.4	2.5	2.2
12	1.9	2.0	2.0	1.9	1.8
13	2.0	2.0	2.3	2.3	2.3
14	7.8	7.4	7.7	7.5	7.0
15	2.7	2.5	2.7	2.9	2.7
16	2.0	1.8	2.0	2.5	3.0

## Weight Per Measured Bushel

It appears from the table below that the use of fertilizer caused a slight increase in weight per bushel. A difference of one pound can be observed in several districts, while in others there was no measurable difference among any of the samples. The various rates of fertilizer application appear unrelated to bushel weight.



**Table No. 6—Average Weight Per Measured Bushel Summarized by Districts**

Wheat Pool District	Application of Zero	11-48-0 30 lbs	Fertilizer on 40 lbs.	Summerfallow 50 lbs.	60 lbs.
1	58	59	58	59	59
2	59	60	60	59	60
3	58	57	58	57	58
4	57	58	58	58	58
5	62	63	62	62	63
6	61	61	61	61	62
7	57	57	58	57	58
8	59	60	60	61	60
9	59	59	59	59	59
10	60	61	61	61	61
11	61	61	61	61	61
12	61	61	61	61	61
13	60	60	60	60	60
14	53	53	53	53	53
15	61	61	61	61	61
16	57	58	58	58	57

## Commercial Grades of Samples

The difference in grades between fertilized and unfertilized samples for this year are too slight to be considered significant. For example, if the top four grades are grouped together, such a grouping would contain 79.4 per cent of the unfertilized samples. If a similar grouping is made of the samples which received fertilizer it would contain the following percentages of the total, for the various rates of application: 30 pounds per acre, 80.9% of the samples; 40 pounds per acre, 82.4%; 50 pounds per acre 82.4%; 60 pounds per acre 82.5%. These percentages are so similar that it can be reasonably assumed that the application of fertilizer did not affect grades.

**Table No. 7—Commercial Grades of Grain Samples from Fertilizer Tests on Summerfallow**

GRADE	Application Zero %	Rate of 30 lbs. %	11-48-0 40 lbs. %	Fertilizer on 50 lbs. %	Summerfallow 60 lbs. %
1 Nor.	7.9	7.9	7.9	9.5	9.5
2 Nor.	41.3	42.9	41.2	36.4	39.7
3 Nor.	14.3	9.5	12.7	14.3	14.3
4 Nor.	15.9	20.6	20.6	22.2	19.0
4 Sp.	6.3	4.8	4.8	4.8	3.2
No. 5	6.3	6.3	4.8	4.8	6.3
5 Sp.	—	—	—	—	—
No. 6	3.2	3.2	3.2	3.2	4.8
Fd.	4.8	4.8	4.8	4.8	3.2



Martin Wlock is shown standing between rows of his flax test at Willowbrook.



Heather and Randy Hosegood of Radisson posed with their sign after the test was harvested.

# Fertilizer Tests on Stubble

A total of 71 tests were seeded on stubble in 1964. In each test a single variety of wheat was grown with four different rates of fertilizer application, and without fertilizer to provide a check. Selkirk wheat was used in those tests located in Wheat Pool districts 1, 6, 7, 8, 9, 14 (see map page 18). Canthatch was used in tests located in the remainder of the province.

## APPLICATION OF FERTILIZER

Various types of fertilizer are available for field application. Each of these contains plant nutrients in different proportions and is therefore suited to the requirements of particular soil conditions or to the needs of particular crops. In order to provide a basis of comparison and to establish quality standards for the different products, it is required by law that the guaranteed analysis be shown on the bag in terms of the percentage of nitrogen, phosphate and potash. The first number indicates the content of nitrogen, the second indicates phosphate and the third indicates potash. For example, 27-14-0 contains 27 per cent nitrogen, 14 percent phosphate and no potash.

The purpose of this year's testing project was to determine for various areas of the province, the fertilizer application which would be most useful for wheat seeded on land which had been cropped the previous year. Four different fertilizer applications were selected for testing: 23-23-0 at a rate equivalent to 65 pounds per acre, 23-23-0 at 87 pounds per acre, 27-14-0 at 148 pounds per acre, and a combination application of 40 pounds per acre of 11-48-0 with 240 pounds per acre of 33.5-0-0. When seed was prepared the appropriate amount of fertilizer for each row was placed in an envelope, and attached to the envelope of seed for that row. The supervisor was asked to hoe a trench, plant the seed, and then scatter the fertilizer in the trench in much the same manner as if it had been planted with a seed drill. This method ensured that the fertilizer was in close proximity to the seed. In the case of the combination application, the 11-48-0 was applied in the way just described, while the 33.5-0-0 was broadcast on the surface of the soil, after seeding, covering only a band of soil over the rows which called for the combined application. In normal seeding practice this broadcast application would be applied either in the fall or spring previous to seeding, but in these tests the need for accurate placing made it essential that the application be made after seeding.

## RESPONSE TO FERTILIZER APPLICATION

### Yields

As mentioned in the section dealing with fertilizer application on summerfallow a considerable degree of caution is necessary when drawing conclusions from the results of fertilizer testing this year. The plant gets its greatest benefit from fertilizer during the first few weeks after germination. The roots absorb the available plant nutrients and make rapid growth during the cooler part of the season. In many parts of the province this year high winds at seeding time dried out the top soil. This condition was even more severe in the case of stubble fields than on summerfallow. As a result in some cases the fertilizer remained undissolved and unavailable to the grain plants. In some tests the seeds did not germinate for a considerable period, and stands were quite uneven.

The table of yields below indicates a wide variation of yield response to the various applications of fertilizer, and it is almost impossible to draw a general conclusion. In only a few districts (1, 3, 6, 7, 8, 9, 14) was the yield difference sufficient to be statistically significant. In some districts in the eastern and south-eastern part of the province where moisture supplies were adequate the heaviest application produced the highest yield. It should be noted however

that in a considerable number of districts the application of 148 pounds of 27-14-0 placed in the rows with the seed appeared to depress yields. This may have been due to a "burning" effect produced by this high level of nitrogen application. When the cost of fertilizer is compared with the value of the grain produced, it is clear that the use of these heavy applications could not be considered economically feasible under the conditions which prevailed in 1964.

**Table No. 8—Average Yield in Bushels per Acre Summarized by Districts**

Wheat Pool District	No. of Satisfactory Tests	Type and Rate of Application of Fertilizer	Zero	65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 11-48-0 + 240 lbs. 33.5-0-0	Necessary* Difference
1	5	17.4	20.0	20.4	19.3	19.6	1.42	
2	2	9.5	9.2	10.1	8.2	9.7	N.S.	
3	1	8.3	7.4	7.6	5.2	7.9	1.15	
4	3	10.6	10.4	10.3	9.6	9.8	N.S.	
5	3	8.8	8.7	8.9	8.6	8.9	N.S.	
6	1	29.7	33.8	34.9	39.0	42.4	3.22	
7	5	27.5	30.7	30.1	31.8	33.2	3.05	
8	6	26.4	27.7	28.0	25.7	28.3	1.73	
9	4	21.2	21.0	20.7	18.7	23.4	2.62	
10	3	12.3	12.3	11.4	11.1	11.9	N.S.	
11	2	6.6	5.8	6.0	5.5	6.2	N.S.	
12	4	16.4	17.0	15.7	15.5	17.4	N.S.	
13	5	12.0	12.1	12.6	12.3	13.9	N.S.	
14	4	14.0	17.0	18.3	18.0	18.5	2.66	
15	2	9.1	12.1	12.2	12.5	12.2	N.S.	
16	1	18.4	15.8	17.6	16.7	15.3	N.S.	

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.  
N.S.—Yield differences not significant.

## Time of Maturity

The table below indicates little difference in time of maturity under various treatments, and the differences which occur are not consistent from district to district relative to the various treatments. It is not possible to draw any firm conclusions from this table.

**Table No. 9—Average Number of Days from Seeding to Ripening Summarized by Districts**

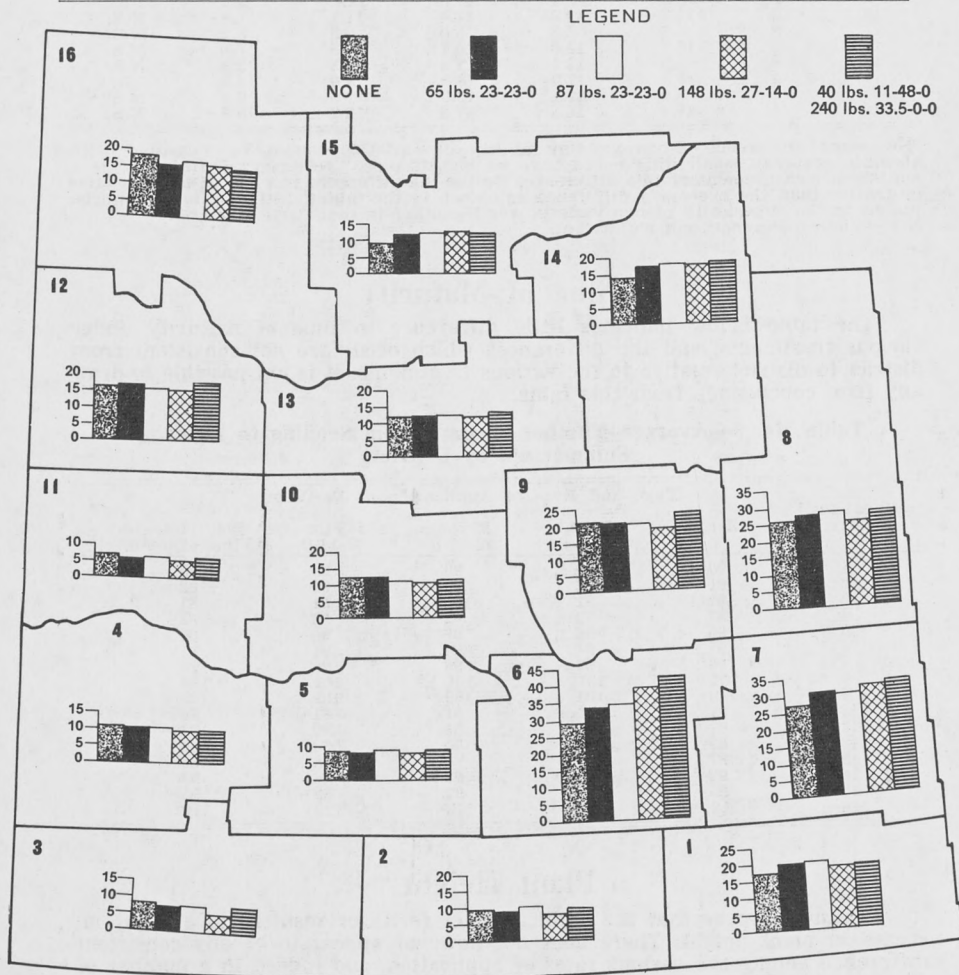
Wheat Pool District	Zero	Type and Rate of Application of Fertilizer				
		65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 11-48-0 + 240 lbs. 33.5-0-0	
1	90	90	90	90	90	
2	91	92	88	92	92	
3	81	81	81	81	81	
4	82	82	82	82	82	
5	96	96	96	96	96	
6	97	94	94	94	91	
7	96	96	96	96	96	
8	101	101	101	101	100	
9	110	109	109	109	109	
10	81	81	81	81	80	
11	97	92	93	92	93	
12	89	89	90	89	89	
13	87	85	86	86	85	
14	92	93	93	93	93	
15	96	93	92	92	93	
16	112	112	112	112	112	

## Plant Height

It would appear that the application of fertilizer resulted in a slight increase in plant height. There does not however appear to be any consistent difference among the various rates of application, and indeed in a number of districts the plants were reported to be equal in height regardless of the rate of application or the lack of fertilizer.

**Table No. 10—Average Height of Plants in Inches  
Summarized by Districts**

Wheat Pool District	Type and Rate of Application of Fertilizer				
	Zero	65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 11-48-0+ 240 lbs. 33.5-0-0
1	25	26	25	25	25
2	27	25	26	26	28
3	23	23	24	22	22
4	26	26	26	26	26
5	18	18	18	17	18
6	31	36	35	36	37
7	33	34	34	33	33
8	31	30	31	30	31
9	27	27	26	26	27
10	16	16	16	16	16
11	14	14	14	14	14
12	20	20	20	20	20
13	20	21	22	22	21
14	20	22	22	22	22
15	18	19	20	20	19
16	—	—	—	—	—



**GRAPH SHOWING YIELDS OF WHEAT RESULTING FROM FERTILIZER  
APPLICATION TO STUBBLE CROP.**

## Straw Strength

Only minor differences in straw strength can be observed in the following table and these are not consistent from district to district relative to the various levels of fertilizer treatment.

**Table No. 11—Average Straw Strength of Plants on the Basis 1 (strong) to 9 (weak)—Summarized by Districts**

Wheat Pool District	Type and Rate of Application of Fertilizer					
	Zero	65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 240 lbs.	11-48-0+ 33.5-0-0
1	2.2	3.5	3.6	3.4		3.1
2	1.3	1.3	1.3	1.3		1.8
3	1.3	2.0	1.5	2.3		1.5
4	3.5	3.3	3.3	3.5		3.3
5	3.3	3.0	3.0	2.9		3.3
6	1.0	1.0	1.0	1.0		1.0
7	1.7	2.0	2.5	2.5		3.0
8	1.6	1.6	1.8	1.8		1.6
9	2.0	2.1	2.5	2.1		2.4
10	2.0	2.0	2.0	2.0		2.0
11	1.0	1.0	1.0	1.0		1.0
12	2.8	3.0	2.9	2.9		3.2
13	2.3	2.0	1.9	2.3		2.2
14	1.0	1.0	1.0	1.0		1.0
15	1.8	1.9	2.0	1.9		1.8
16	1.0	1.0	1.0	1.0		1.0

## Weight Per Measured Bushel

In nine of the sixteen districts the average bushel weight was identical for all treatments and in no district did the difference exceed one pound per bushel for any of the treatments.

**Table No. 12—Average Weight Per Measured Bushel Summarized by Districts**

Wheat Pool District	Type and Rate of Application of Fertilizer					
	Zero	65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 240 lbs.	11-48-0+ 33.5-0-0
1	59	59	59	59		59
2	58	58	58	58		59
3	55	54	55	55		54
4	55	55	55	55		54
5	58	58	58	58		58
6	62	62	62	62		62
7	61	61	61	61		61
8	59	58	58	58		59
9	55	56	55	55		56
10	60	60	60	60		60
11	58	58	58	58		58
12	58	58	58	58		58
13	59	59	59	59		59
14	56	56	56	56		56
15	61	62	62	62		62
16	62	61	62	61		62

## Commercial Grades of Samples

The percentage of samples in the top grades varied only slightly with the different treatments and there would appear to be no significant difference among them.

**Table No. 13—Commercial Grades of Grain Samples from Fertilizer Tests on Summerfallow**

GRADE		Type and Rate of Application of Fertilizer					
		Zero	65 lbs. 23-23-0	87 lbs. 23-23-0	148 lbs. 27-14-0	40 lbs. 240 lbs.	11-48-0+ 33.5-0-0
	%	%	%	%	%	%	%
1 Nor.	—	1.9	—	1.9	—	1.9	—
2 Nor.	44.4	38.8	40.7	42.6	—	40.6	—
3 Nor.	22.2	22.2	24.1	16.7	—	24.0	—
4 Nor.	9.3	13.0	13.0	14.8	—	9.3	—
4 Sp.	5.6	3.7	3.7	5.6	—	1.9	—
No. 5	5.6	7.4	3.7	5.6	—	9.3	—
5 Sp.	—	—	—	—	—	—	—
No. 6	3.7	7.4	7.4	5.6	—	7.4	—
Fd.	9.3	5.6	7.4	—	—	5.6	—



# Oat Tests

A total of 73 tests were seeded in 1964. Each test contained the five varieties Garry, Rodney, Russell, Glen and Pendek. Oat tests were grown throughout the province.

## DESCRIPTION OF VARIETIES

**Garry** was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1953. It is resistant to stem rust and to loose and covered smut. Garry has strong straw and is medium early in maturity.

**Rodney** was developed by the Canada Department of Agriculture at Winnipeg. It is late maturing and has medium tall, strong straw. It has fair resistance to stem and crown rust and good resistance to smut. It has large, plump kernels which tend to peel when threshed.

**Russell** was developed by the Canada Department of Agriculture and licensed for commercial distribution in 1960. It is medium early in maturity and has medium-short, strong straw. It is resistant to stem and crown rust and to smut.

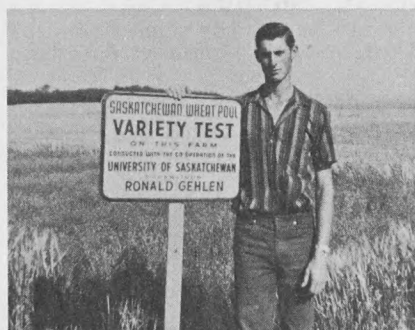
**Glen** was developed at Macdonald College, Quebec. It is early maturing and has medium-long, medium-strong straw. It is moderately resistant to stem rust and covered smut, but is susceptible to loose smut and to crown rust.

**Pendek**—this variety was introduced from Holland and licensed for commercial distribution in Canada in 1963. It has short, strong straw and is early in maturity. Pendek is susceptible to leaf rust and to smut.

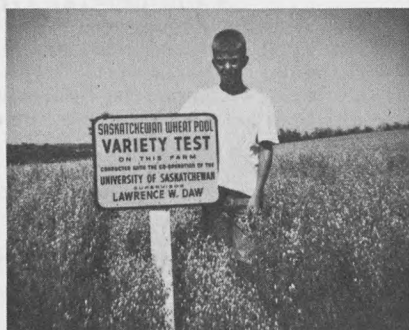
## PERFORMANCE OF VARIETIES

### Yield

**Glen** performed quite well in these tests this year, over a considerable area of the province. It outyielded the other four varieties in eleven of the sixteen districts. Its best performance was in the southern and eastern part of the province, but it also yielded well in the north and north-western districts. On an average basis **Garry** ranked second. It yielded well in the south-east corner of the province, and also in the north-central districts, but was less satisfactory in the south-west and central part of the province. **Russell** yielded relatively well across the south but was not outstanding in the central and northern districts. **Pendek** varied considerably from one district to another. It produced the highest yields in districts 10 and 14, and ranked second in districts 3 and 8. In the remaining districts it was outyielded by several other varieties. **Rodney** was, on the average, outyielded by the other varieties tested. When considering these yields it should be kept in mind that the 1964 season was quite unusual. Hot, dry weather in early fall was particularly unfavorable to oats, and caused the late varieties to appear at a disadvantage.



Ronald Gehlen conducted a flax variety test at Humboldt.



Lawrence Daw of Jasmin conducted an oat test in 1964.

**Table No. 14—Average Yields in Bushels per Acre Summarized by Districts**

Wheat Pool District	No. of Satisfactory Tests	Garry	Rodney	Russell	Glen	Pendek	Necessary* Difference in Bus.
1	2	53.9	44.7	51.4	50.9	38.2	N.S.
2	4	46.5	45.0	52.2	56.9	49.1	6.28
3	3	47.2	35.4	50.9	48.5	49.9	N.S.
4	3	37.9	30.4	37.8	39.9	30.2	N.S.
5	4	35.2	30.9	34.0	36.3	31.7	3.38
6	4	65.7	66.3	64.6	69.7	62.6	N.S.
7	2	68.6	67.7	67.3	70.1	61.9	N.S.
8	3	65.7	60.8	57.4	71.2	70.0	N.S.
9	5	45.4	44.7	43.9	47.4	44.9	N.S.
10	4	31.2	33.4	35.0	34.3	35.4	N.S.
11	2	36.9	37.4	37.4	38.5	35.5	N.S.
12	4	32.3	30.3	29.7	32.1	29.6	N.S.
13	5	26.4	25.4	23.9	28.3	24.6	N.S.
14	2	77.0	77.5	73.5	79.4	85.4	N.S.
15	2	56.1	55.8	53.2	57.6	53.9	N.S.
16	1	27.5	26.5	30.3	31.5	26.8	N.S.

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

## Time of Maturity

On an average basis Pendek was the earliest maturing variety of those tested. Although there was some variation from district to district, on an average basis the other varieties matured in the following order: Glen, Garry, Russell and Rodney.

**Table No. 15—Average Number of Days from Seeding to Ripening Summarized by Districts**

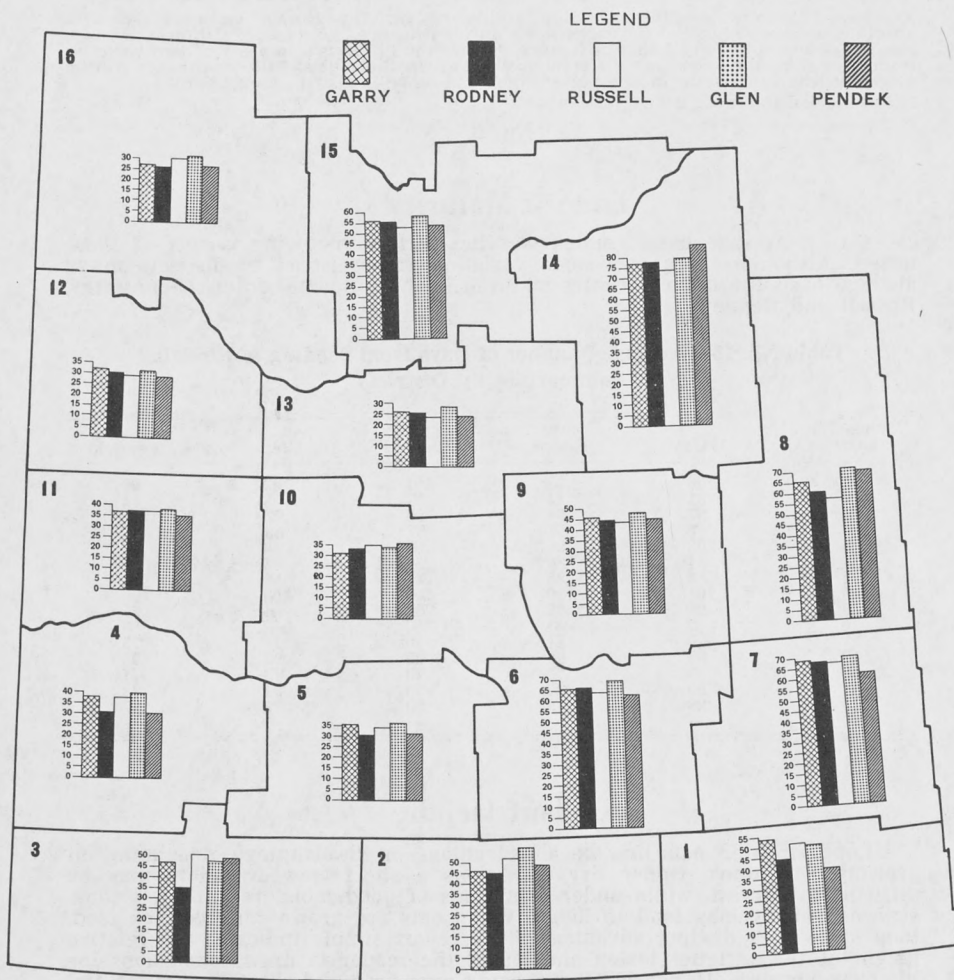
Wheat Pool District	Garry	Rodney	Russell	Glen	Pendek
1	100	98	101	102	97
2	81	81	81	78	81
3	92	94	93	92	92
4	87	87	87	86	86
5	98	98	98	98	98
6	84	84	84	83	83
7	83	83	83	83	84
8	101	100	103	100	100
9	95	95	94	94	95
10	87	88	87	87	85
11	80	81	80	79	79
12	95	95	95	92	93
13	73	73	73	73	71
14	90	95	93	94	93
15	98	99	99	99	97
16	—	—	—	—	—

## Plant Height

Long straw in oats may be an advantage or disadvantage, depending on growing conditions. Under dry conditions a short-strawed variety may be difficult to harvest, while under conditions of good moisture supply, a long-strawed variety may tend to lodge. When oats are grown for livestock feed, long straw is a distinct advantage. This report simply indicates the relative height of the varieties tested and leaves the reader to draw conclusions for his own purposes. In nearly all districts Garry produced the tallest straw and Pendek the shortest. Of the remaining varieties Rodney was taller and Russell shorter than Glen.

Table No. 16—Average Height of Plants in Inches Summarized by Districts

Wheat Pool District	Garry	Rodney	Russell	Glen	Pendek
1	30	30	29	28	22
2	34	31	31	33	28
3	30	29	27	29	24
4	29	28	27	29	24
5	30	28	26	28	25
6	30	30	28	28	23
7	35	34	33	35	27
8	35	36	35	36	36
9	25	24	23	24	19
10	26	26	26	26	22
11	22	21	21	22	19
12	25	23	23	24	24
13	25	24	22	24	20
14	35	34	34	33	30
15	20	23	22	21	16
16	—	—	—	—	—



## Straw Strength

On an average basis **Rodney** showed the greatest strength of the varieties tested, followed by **Pendek**, **Glen**, **Russell** and **Garry** in that order.

**Table No. 17—Average Straw Strength of Plants  
On the Basis 1 (Strong) to 9 (Weak)—Summarized by Districts**

Wheat Pool District	Garry	Rodney	Russell	Glen	Pendek
1	2.8	2.0	2.7	4.0	4.7
2	4.7	3.5	3.1	4.4	3.3
3	3.3	3.0	3.1	4.3	3.3
4	4.5	5.0	4.9	4.3	4.5
5	2.8	2.6	2.6	2.5	2.5
6	3.0	3.3	3.3	2.5	3.5
7	1.8	1.8	1.8	1.7	1.0
8	3.3	3.2	5.2	5.2	4.6
9	1.3	1.3	1.3	1.3	2.0
10	4.2	3.8	4.1	4.1	3.0
11	1.0	1.0	1.0	1.0	1.0
12	2.1	2.0	2.0	1.8	1.8
13	1.8	1.6	1.4	2.4	1.4
14	1.4	1.3	2.2	2.0	3.6
15	1.3	1.0	1.5	1.0	1.0
16	—	—	—	—	—

## Weight per Measured Bushel

**Rodney** quite consistently outweighed the other four varieties and in most districts **Russell** ranked second. On an average basis **Garry** ranked third, followed by **Glen** and **Pendek** in that order.

**Table No. 18—Average Weight Per Measured Bushel Summarized by Districts**

Wheat Pool District	Garry	Rodney	Russell	Glen	Pendek
1	40	42	40	39	37
2	36	37	38	36	36
3	35	35	37	34	34
4	36	38	39	36	36
5	35	38	38	35	35
6	39	41	40	38	37
7	38	41	39	38	37
8	37	37	38	37	37
9	39	39	39	37	37
10	32	34	34	33	33
11	36	38	38	36	35
12	34	36	34	33	33
13	36	37	37	36	36
14	38	40	38	38	37
15	38	39	38	36	37
16	37	39	37	35	36

## Commercial Grades of Samples

The table below indicates little difference in grading position, with only a slight margin in favor of **Rodney**. Grades for **Pendek** were slightly lower than for the other varieties.

**Table No. 19—Percentage of Commercial Grades by Varieties  
On a Province-Wide Basis**

Grade	Garry %	Rodney %	Russell %	Glen %	Pendek %
1 CW	1.7	—	—	—	—
2 CW	—	3.3	3.3	1.7	1.7
3 CW	10.0	10.0	11.7	10.0	6.7
Ex. 1 Fd.	3.3	8.3	5.0	3.3	3.3
1 Fd.	58.4	56.7	60.0	51.7	60.0
2 Fd.	23.3	21.7	18.3	30.0	26.6
3 Fd.	3.3	—	1.7	3.3	1.7

# Flax Tests

A total of 77 tests were seeded in 1964. Each test contained the five varieties Redwood, Norland, Bolley, S-5436 and Summit. Flax tests were located throughout the province.

## DESCRIPTION OF VARIETIES

**Redwood** was developed by the Minnesota Experiment Station and licensed for commercial distribution in Canada in 1951. It is late maturing and has good straw strength. It is resistant to rust and wilt.

**Norland** is a selection from the variety Victory made at the North Dakota Agricultural Experiment Station. It was first distributed in Canada in 1954. Norland is late maturing and has medium-tall straw. It is resistant to rust and has fair resistance to wilt.

**Bolley** was developed in the United States in 1957 and later licensed in Canada. It is a medium-tall, medium-early variety which is resistant to all races of rust now prevalent. It is resistant to wilt and moderately resistant to PasmO.

**S-5436** (grown under the code number E-64) This is an improved selection from the variety Redwood, made at the University of Saskatchewan. It is earlier maturing than Redwood but otherwise similar. This selection was not licensed at the time this report was prepared.

**Summit** (grown under the code number F-23) This variety was developed in North Dakota, and at the time of writing this report, was not licensed in Canada. It is medium-early in maturity and is resistant to rust and wilt. It is susceptible to PasmO.

## PERFORMANCE OF VARIETIES

### Yields

Flax yields varied widely in 1964 due to adverse weather conditions. Dry soil in the spring caused poor germination in some tests, and the early fall frost, combined with unfavorable harvest weather, made it necessary to discard a number of tests, particularly those in the northern portion of the province. On an average basis, over the province as a whole **Redwood** and **S-5436** both yielded quite well. Redwood made its best showing in the southern and eastern part of the province, while **S-5436** appears more adapted to the central and northern districts. **Norland** showed more adaptability to conditions in northern districts than the south or centre, while **Summit** showed up well in the south. **Bolley** was not particularly outstanding in this year's tests.

**Table No. 20—Average Yields in Bushels per Acre Summarized by Districts**

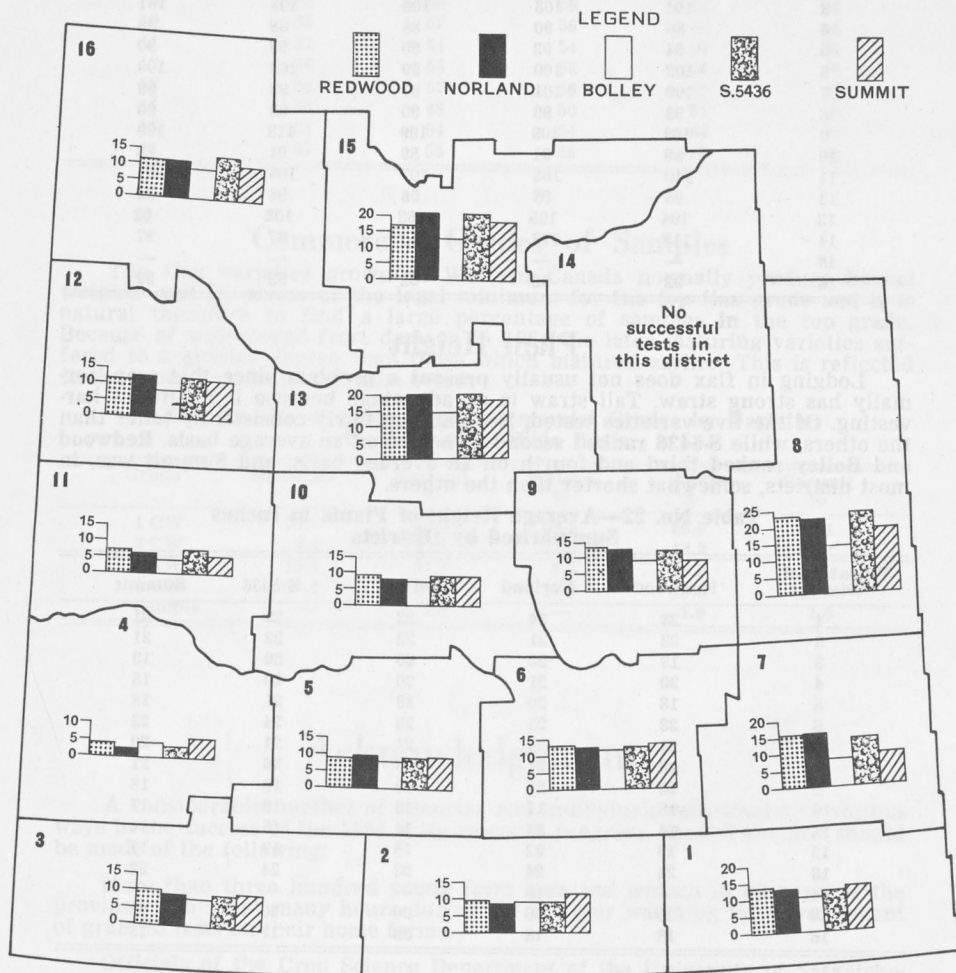
Wheat Pool District	No. of Satisfactory Tests	Redwood	Norland	Bolley	S-5436	Summit	Necessary* Difference in Bushels
1	5	13.6	13.2	10.1	12.2	13.4	1.95
2	3	9.5	8.8	9.3	9.3	11.2	N.S.
3	5	10.1	9.2	8.4	9.8	10.0	N.S.
4	1	3.9	2.3	4.6	2.9	5.8	.90
5	5	9.1	9.9	8.0	9.4	9.6	N.S.
6	4	12.8	12.2	11.6	12.3	13.6	N.S.
7	2	15.5	15.6	7.8	14.0	9.9	5.25
8	3	23.7	22.4	14.4	24.2	19.7	5.04
9	2	13.8	13.6	9.0	13.5	9.0	1.73
10	2	9.3	8.1	7.8	9.3	9.3	N.S.
11	2	7.2	6.2	4.7	7.3	5.3	N.S.
12	2	11.8	13.3	8.5	13.3	12.3	N.S.
13	4	19.4	20.0	14.5	20.0	17.9	2.99
14	—	—	—	—	—	—	—
15	1	17.0	20.8	13.0	20.6	18.3	2.96
16	3	11.9	11.9	9.3	13.1	11.3	N.S.

\*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.  
N.S.—Yield differences not significant.



Table No. 21--Average Number of Days from Seeding to Ripening  
Summarized by District

Bolloy was the earliest variety of the flax seed and on an average basis  
Summit ranked second. The other three varieties were quite similar in time  
of ripening but on an average basis Redwood was slightly earlier and Norland  
slightly later than S-5436.



GRAPH SHOWING FLAX YIELDS IN 1964

## Time of Maturity

**Bolley** was the earliest variety of the five tested, and on an average basis **Summit** ranked second. The other three varieties were quite similar in time of ripening but on an average basis **Redwood** was slightly earlier and **Norland** slightly later than **S-5436**.

**Table No. 21—Average Number of Days from Seeding to Ripening Summarized by Districts**

Wheat Pool District	Redwood	Norland	Bolley	S-5436	Summit
1	101	102	99	100	100
2	93	94	93	95	94
3	101	103	100	103	101
4	88	90	88	88	89
5	94	92	90	98	90
6	102	100	99	102	100
7	100	101	97	98	99
8	93	99	90	93	90
9	109	109	109	113	109
10	89	91	89	91	88
11	110	103	107	108	101
12	95	93	96	96	96
13	104	105	93	103	92
14	113	113	113	97	97
15	—	—	—	—	—
16	92	92	92	92	92

## Plant Height

Lodging in flax does not usually present a problem since this crop normally has strong straw. Tall straw is an advantage because it facilitates harvesting. Of the five varieties tested, **Norland** was fairly consistently taller than the others, while **S-5436** ranked second in height on an average basis. **Redwood** and **Bolley** ranked third and fourth on an average basis, and **Summit** was, in most districts, somewhat shorter than the others.

**Table No. 22—Average Height of Plants in Inches Summarized by Districts**

Wheat Pool District	Redwood	Norland	Bolley	S-5436	Summit
1	23	24	22	23	21
2	22	21	22	22	21
3	19	20	20	20	19
4	20	21	20	20	18
5	18	20	19	21	18
6	23	23	23	24	22
7	21	24	21	21	20
8	26	27	23	26	21
9	20	21	19	19	18
10	18	17	19	19	17
11	14	14	14	15	14
12	19	22	19	19	17
13	24	24	23	24	22
14	—	—	—	—	—
15	20	20	20	20	20
16	18	18	18	17	18

## Weight per Measured Bushel

**S-5436** and **Summit** were quite similar in bushel weight in most districts, but on an average basis, **S-5436** was slightly higher. Of the remaining three varieties, **Redwood** was lowest in weight and **Norland** and **Bolley** were intermediate. In all cases these bushel weights were considerably in excess of the minimum legal bushel weight (51 pounds) required for the top flax grade.

**Table No. 23—Average Weight Per Measured Bushel  
Summarized by Districts**

Wheat Pool District	Redwood	Norland	Bolley	S-5436	Summit
1	53	55	56	55	56
2	53	54	55	55	56
3	55	56	55	56	56
4	56	56	56	56	56
5	54	55	55	56	56
6	55	56	56	56	56
7	54	54	54	54	54
8	54	56	55	56	56
9	55	55	56	56	55
10	55	57	56	56	55
11	52	54	54	54	55
12	54	53	53	54	54
13	56	57	56	57	57
14	50	48	50	51	50
15	53	54	54	54	53
16	55	55	55	56	56

## Commercial Grades of Samples

The flax varieties grown in Western Canada normally produce bushel weights well in excess of the legal minimum for the top flax grade and it is natural therefore to find a large percentage of samples in the top grade. Because of widespread frost damage in 1964 the later maturing varieties suffered to a greater degree than those which matured earlier. This is reflected in the grade figures in the table below.

**Table No. 24—Percentage of Commercial Grades by Varieties  
On a Province-Wide Basis**

Grade	Redwood %	Norland %	Bolley %	S-5436 %	Summit %
1 CW	54.7	60.4	69.9	58.5	66.1
2 CW	9.4	15.1	11.3	13.2	9.4
3 CW	15.1	11.3	7.5	13.2	11.3
4 CW	20.8	11.3	11.3	13.2	11.3
Sample	—	1.9	—	1.9	1.9

## Acknowledgements

A considerable number of agencies and individuals contributed in various ways to the success of the 1964 grain research program. Special mention should be made of the following:

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Officials of the Experimental Farms at Indian Head, Melfort, Regina, Scott and Swift Current.

Table No. 25

# Individual Test Results—Fertilizer on Summerfallow

The results of all successful fertilizer on summerfallow tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

**IMPORTANT**—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviation under "Grading Remarks" see page 9.

For an explanation of the column "Cost of Fertilizer" see page 9.

## WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Thomas G. Cameron, Carievale</b>										
1	1	Zero	38.0	91	42	4.5	60	2 Nor.	S.	—
		30 lbs 11-48-0	39.7	91	41	3.5	61	2 Nor.	S.	\$1.62
		40 lbs 11-48-0	40.8	91	41	4.8	61	2 Nor.	S.	\$2.16
		50 lbs 11-48-0	41.1	91	42	3.8	60	2 Nor.	S.	\$2.70
		60 lbs 11-48-0	43.2	91	41	3.0	61	2 Nor.	S.	\$3.23
Yield differences not significant							Rainfall—May to August—10.86 inches			

<b>Linda Belisle, Fertile</b>										
1	2	Zero	20.9	—	—	—	56	No. 5	F.	—
		30 lbs 11-48-0	21.5	—	—	—	57	No. 5	F.	\$1.62
		40 lbs 11-48-0	22.3	—	—	—	57	No. 5	F.	\$2.16
		50 lbs 11-48-0	22.5	—	—	—	57	No. 5	F.	\$2.70
		60 lbs 11-48-0	22.3	—	—	—	58	No. 5	F.	\$3.23
Yield differences not significant							Rainfall—May to August—Incomplete			

<b>Larry Gervais, Estevan</b>										
1	5	Zero	14.2	—	—	—	56	4 Nor.	S.	—
		30 lbs 11-48-0	14.8	—	—	—	57	4 nor.	S.	\$1.62
		40 lbs 11-48-0	13.8	—	—	—	58	3 Nor.	S.	\$2.16
		50 lbs 11-48-0	16.5	—	—	—	59	4 Nor.	S.	\$2.70
		60 lbs 11-48-0	17.0	—	—	—	59	3 Nor.	S.	\$3.23
Yield differences not significant							Rainfall—May to August—Incomplete			

<b>Chris Boyle, Colgate</b>										
1	7	Zero	38.1	85	—	—	59	3 Nor.	S.	—
		30 lbs 11-48-0	37.7	85	—	—	60	2 Nor.	S.	\$1.62
		40 lbs 11-48-0	36.5	85	—	—	58	3 Nor.	S.	\$2.16
		50 lbs 11-48-0	39.5	85	—	—	59	3 Nor.	S.	\$2.70
		60 lbs 11-48-0	39.5	85	—	—	59	3 Nor.	S.	\$3.23
Yield differences not significant							Rainfall—May to August—6.90 inches			

<b>Romeo L. Perreux, Bellegarde</b>										
1	10	Zero	34.8	96	—	4.8	58	4 Nor.	F.	—
		30 lbs 11-48-0	39.0	96	—	5.3	58	4 Nor.	F.	\$1.62
		40 lbs 11-48-0	37.0	96	—	4.5	57	4 Nor.	F.	\$2.16
		50 lbs 11-48-0	39.2	96	—	4.8	58	4 Nor.	F.	\$2.70
		60 lbs 11-48-0	39.6	96	—	5.0	59	4 Nor.	F.	\$3.23
Yield differences not significant							Rainfall—May to August—9.29 inches			

## WHEAT POOL DISTRICT 2

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
Douglas J. Kleinfelder, Rockglen										
2	4	Zero	—	110	18	5.0	57	3 Nor.	Bl.	—
		30 lbs 11-48-0	—	110	20	4.5	57	3 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	—	110	20	4.8	57	3 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	—	110	20	4.5	56	4 Nor.	Bl.	\$2.67
		60 lbs 11-48-0	—	110	20	4.8	57	3 Nor.	Bl.	\$3.20
Test damaged by hail—yields not reliable						Rainfall—May to August—6.10 inches				
Melvin Monea, Killedeer										
2	5	Zero	20.7	91	30	5.0	61	2 Nor.	S.	—
		30 lbs 11-48-0	23.7	91	32	5.0	62	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	23.6	91	32	5.0	62	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	24.1	91	31	5.0	61	2 Nor.	S.	\$2.67
		60 lbs 11-48-0	23.3	91	31	5.0	62	2 Nor.	S.	\$3.20
Necessary Difference—1.87 bushels						Rainfall—May to August—6.12 inches				
Ken M. Kevol, Ormiston										
2	8	Zero	11.5	99	18	2.0	59	2 Nor.	S.	—
		30 lbs 11-48-0	11.3	99	20	2.0	60	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	13.0	99	19	2.0	60	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	13.0	99	19	2.0	59	2 Nor.	S.	\$2.67
		60 lbs 11-48-0	12.8	99	19	2.0	60	2 Nor.	S.	\$3.20
Necessary Difference—1.39 bushels						Rainfall—May to August—4.92 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:										
2	6	Raymond Nelson, Glentworth								
2	9	Dwayne Dunn, Ogema								

## WHEAT POOL DISTRICT 3

R. Laverne Tetreau, Horse Creek										
3	1	Zero	24.2	—	—	—	60	2 Nor.	S.	—
		30 lbs 11-48-0	25.2	—	—	—	60	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	26.3	—	—	—	60	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	26.4	—	—	—	58	2 Nor.	S.	\$2.67
		60 lbs 11-48-0	24.0	—	—	—	60	2 Nor.	S.	\$3.20
Yield differences not significant							Rainfall—May to August—7.33 inches			
Ian K. Shirley, Climax										
3	3	Zero	12.9	105	18	4.0	55	4 Sp.	S., Bl.	—
		30 lbs 11-48-0	14.0	105	18	4.0	56	4 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	12.4	105	18	4.0	56	4 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	14.9	105	18	4.0	56	4 Nor.	Bl.	\$2.67
		60 lbs 11-48-0	16.0	105	18	4.0	56	4 Nor.	Bl.	\$3.20
Yield differences not significant							Rainfall—May to August—7.81 inches			
Barry Vasseur, Frontier										
3	4	Zero	7.3	102	24	1.8	55	4 Sp.	S.	—
		30 lbs 11-48-0	8.1	101	25	1.8	54	4 Sp.	S.	\$1.60
		40 lbs 11-48-0	8.8	100	24	2.0	55	4 Sp.	S.	\$2.13
		50 lbs 11-48-0	7.8	101	23	1.5	55	4 Sp.	S.	\$2.67
		60 lbs 11-48-0	8.3	99	22	1.0	55	4 Sp.	S.	\$3.20
Yield differences not significant							Rainfall—May to August—6.00 inches			
Edward Arendt, Eastend										
3	6	Zero	20.6	—	25	—	57	3 Nor.	Bl.	—
		30 lbs 11-48-0	19.1	—	24	—	57	3 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	18.8	—	25	—	58	3 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	20.5	—	25	—	57	3 Nor.	Bl.	\$2.67
		60 lbs 11-48-0	20.3	—	26	—	58	3 Nor.	Bl.	\$3.20
Yield differences not significant							Rainfall—May to August—6.15 inches			



# WHEAT POOL DISTRICT 3—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Douglas L. Lewis, Eastend</b>										
3	7	Zero	31.9	92	30	2.0	57	3 Nor.	S.	—
		30 lbs 11-48-0	31.0	92	30	2.0	56	4 Nor.	S.	\$1.60
		40 lbs 11-48-0	30.7	92	30	2.0	56	4 Nor.	S.	\$2.13
		50 lbs 11-48-0	33.1	92	30	2.0	56	4 Nor.	S.	\$2.67
		60 lbs 11-48-0	31.1	92	30	2.0	56	4 Nor.	S.	\$3.20
Yield differences not significant						Rainfall—May to August—7.05 inches				

<b>Ray Rabaey, Shaunavon</b>										
3	8	Zero	28.3	—	—	—	60	2 Nor.	Bl.	—
		30 lbs 11-48-0	29.4	—	—	—	60	2 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	27.4	—	—	—	60	2 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	24.7	—	—	—	60	2 Nor.	Bl.	\$2.67
		60 lbs 11-48-0	27.5	—	—	—	59	2 Nor.	Bl.	\$3.20
Yield differences not significant						Rainfall—May to August—Incomplete				

<b>Garry R. Finnell, Ponteix</b>										
3	10	Zero	18.7	99	24	2.8	59	2 Nor.	Bl.	—
		30 lbs 11-48-0	18.7	99	24	2.8	59	2 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	17.6	99	23	2.8	59	2 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	18.4	97	24	3.0	60	2 Nor.	Bl.	\$2.67
		60 lbs 11-48-0	18.2	100	24	2.3	59	2 Nor.	Bl.	\$3.20
Yield differences not significant						Rainfall—May to August—8.50 inches				

# WHEAT POOL DISTRICT 4

<b>Kenneth R. Hymers, Swift Current</b>										
4	3	Zero	15.5	—	16	3.5	59	2 Nor.	Bl.	—
		30 lbs 11-48-0	18.4	—	18	2.8	60	2 Nor.	Bl.	\$1.58
		40 lbs 11-48-0	20.1	—	18	2.5	61	2 Nor.	Bl.	\$2.10
		50 lbs 11-48-0	19.4	—	17	3.8	59	2 Nor.	Bl.	\$2.63
		60 lbs 11-48-0	21.3	—	20	2.3	60	2 Nor.	Bl.	\$3.16
Necessary Difference—2.60 bushels						Rainfall—May to August—4.47 inches				

<b>Lorne Johnson, Abbey</b>										
4	6	Zero	17.2	89	27	2.0	54	4 Sp.	Bl., S.	—
		30 lbs 11-48-0	15.9	89	28	2.3	54	4 Sp.	Bl., S.	\$1.58
		40 lbs 11-48-0	16.2	89	26	2.3	54	4 Sp.	Bl., S.	\$2.10
		50 lbs 11-48-0	17.1	89	27	2.0	55	4 Sp.	Bl., S.	\$2.63
		60 lbs 11-48-0	16.0	89	27	1.8	56	4 Nor.	Bl., S.	\$3.16
Yield differences not significant						Rainfall—May to August—5.16 inches				

<b>Edwin K. Gertner, Fox Valley</b>										
4	7	Zero	19.4	—	27	3.0	55	4 Sp.	Bl., S.	—
		30 lbs 11-48-0	18.4	—	27	3.0	55	4 Sp.	Bl., S.	\$1.58
		40 lbs 11-48-0	19.3	—	27	3.0	55	4 Sp.	Bl., S.	\$2.10
		50 lbs 11-48-0	21.0	—	27	3.0	55	4 Sp.	Bl., S.	\$2.63
		60 lbs 11-48-0	19.6	—	27	3.0	55	4 Sp.	Bl., S.	\$3.16
Yield differences not significant						Rainfall—May to August—4.22 inches				

<b>Allan Roth, Mendham</b>										
4	8	Zero	18.6	87	12	1.0	61	2 Nor.	S.	—
		30 lbs 11-48-0	19.7	87	12	1.0	62	2 Nor.	S.	\$1.58
		40 lbs 11-48-0	18.4	87	12	1.0	62	2 Nor.	S.	\$2.10
		50 lbs 11-48-0	20.2	87	12	1.0	62	2 Nor.	S.	\$2.63
		60 lbs 11-48-0	18.5	87	12	1.0	62	2 Nor.	S.	\$3.16
Yield differences not significant						Rainfall—May to August—6.55 inches				

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

4 9 Robert Staple, Sceptre

## WHEAT POOL DISTRICT 5

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
Ronnie Cuthbert, Mossbank										
5	1	Zero	27.6	99	29	4.3	60	2 Nor.	Bl.	—
		30 lbs 11-48-0	28.6	99	29	4.5	61	2 Nor.	Bl.	\$1.60
		40 lbs 11-48-0	29.1	99	28	4.3	60	2 Nor.	Bl.	\$2.13
		50 lbs 11-48-0	29.6	99	27	4.5	60	2 Nor.	Bl.	\$2.66
		60 lbs 11-48-0	29.3	99	29	4.8	60	2 Nor.	Bl.	\$3.19
Yield differences not significant							Rainfall—May to August—3.32 inches			
Gerald Carrobourg, Gravelbourg										
5	2	Zero	10.6	88	21	2.0	64	1 Nor.	—	—
		30 lbs 11-48-0	14.3	88	21	2.0	64	1 Nor.	—	\$1.60
		40 lbs 11-48-0	15.7	88	21	2.0	64	1 Nor.	—	\$2.13
		50 lbs 11-48-0	15.8	88	21	2.0	64	1 Nor.	—	\$2.66
		60 lbs 11-48-0	16.4	88	21	2.0	64	1 Nor.	—	\$3.19
Necessary Difference—2.03 bushels							Rainfall—May to August—4.52 inches			
Howard L. Ailsby, Vesper										
5	3	Zero	19.1	—	—	—	57	4 Nor.	S., F.	—
		30 lbs 11-48-0	21.3	—	—	—	56	4 Nor.	S., F.	\$1.60
		40 lbs 11-48-0	19.2	—	—	—	56	4 Nor.	S., F.	\$2.13
		50 lbs 11-48-0	23.2	—	—	—	56	4 Nor.	S., F.	\$2.66
		60 lbs 11-48-0	19.7	—	—	—	56	4 Nor.	S., F.	\$3.19
Yield differences not significant							Rainfall—May to August—6.26 inches			
Margaret A. Hetherington, Old Wives										
5	6	Zero	20.9	98	24	1.8	62	2 Nor.	S.	—
		30 lbs 11-48-0	23.4	99	25	2.0	62	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	24.6	99	25	1.8	62	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	24.2	98	24	1.8	63	2 Nor.	S.	\$2.66
		60 lbs 11-48-0	24.8	99	25	1.8	63	2 Nor.	S.	\$3.19
Necessary Difference—1.64 bushels							Rainfall—May to August—6.78 inches			
Jim Maynard, Archydal										
5	7	Zero	12.0	—	—	—	62	4 Nor.	F.	—
		30 lbs 11-48-0	13.9	—	—	—	63	4 Nor.	F.	\$1.60
		40 lbs 11-48-0	12.4	—	—	—	62	4 Nor.	F.	\$2.13
		50 lbs 11-48-0	13.5	—	—	—	62	4 Nor.	F.	\$2.66
		60 lbs 11-48-0	13.0	—	—	—	63	4 Nor.	F.	\$3.19
Yield differences not significant							Rainfall—May to August—Incomplete			

## WHEAT POOL DISTRICT 6

Elaine McKenzie, Moose Jaw										
6	5	Zero	23.8	87	25	2.0	62	2 Nor.	S.	—
		30 lbs 11-48-0	24.9	82	28	2.3	62	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	25.6	82	27	2.8	63	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	26.4	82	28	2.5	62	2 Nor.	S.	\$2.67
		60 lbs 11-48-0	27.0	81	27	2.3	63	2 Nor.	S.	\$3.20
Yield differences not significant						Rainfall—May to August—4.73 inches				
Thomas F. Findlay, Briercrest										
6	6	Zero	18.3	96	33	2.0	59	2 Nor.	S.	—
		30 lbs 11-48-0	19.3	96	34	2.0	60	2 Nor.	S.	\$1.60
		40 lbs 11-48-0	20.6	96	34	2.0	59	2 Nor.	S.	\$2.13
		50 lbs 11-48-0	19.2	96	34	2.0	59	2 Nor.	S.	\$2.67
		60 lbs 11-48-0	21.0	96	34	2.0	60	2 Nor.	S.	\$3.20
Yield differences not significant						Rainfall—May to August—8.55 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes.										
6	4	Richard Machmer, Spring Valley								
6	10	Chris Mickelborough, Regina								

## WHEAT POOL DISTRICT 7

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Wayne Skiba, Wapella</b>										
7	2	Zero	17.8	100	41	2.0	46	Fd.	S., F.	—
		30 lbs 11-48-0	18.6	100	42	2.0	46	Fd.	S., F.	\$1.62
		40 lbs 11-48-0	19.5	99	42	2.0	48	Fd.	S., F.	\$2.16
		50 lbs 11-48-0	20.7	99	42	2.0	47	Fd.	S., F.	\$2.71
		60 lbs 11-48-0	19.0	100	42	2.0	48	Fd.	S., F.	\$3.25
Yield differences not significant							Rainfall—May to August—10.83 inches			

<b>Frank C. Mowbray, Wawota</b>										
7	3	Zero	10.5	—	—	—	55	No. 5	S.	—
		30 lbs 11-48-0	14.5	—	—	—	56	No. 4	S.	\$1.62
		40 lbs 11-48-0	13.3	—	—	—	56	No. 4	S.	\$2.16
		50 lbs 11-48-0	15.2	—	—	—	56	No. 4	S.	\$2.71
		60 lbs 11-48-0	15.0	—	—	—	56	No. 4	S.	\$3.25
Yield differences not significant							Rainfall—May to August—Incomplete			

<b>Judy Innes, Osage</b>										
7	5	Zero	14.6	98	—	2.0	58	3 Nor.	Bl. S.	—
		30 lbs 11-48-0	16.3	98	—	2.0	59	2 Nor.	Bl. S.	\$1.62
		40 lbs 11-48-0	14.8	98	—	2.0	58	3 Nor.	Bl. S.	\$2.16
		50 lbs 11-48-0	14.8	98	—	2.0	59	2 Nor.	Bl. S.	\$2.71
		60 lbs 11-48-0	16.6	98	—	2.0	59	2 Nor.	Bl. S.	\$3.25
Test seeded on stubble—not included in district summary							Rainfall—May to August—7.69 inches			

<b>D. Edwin Wyatt, Broadview</b>										
7	7	Zero	38.4	89	34	3.0	62	4 Nor.	F.	—
		30 lbs 11-48-0	40.8	89	33	3.3	62	4 Nor.	F.	\$1.62
		40 lbs 11-48-0	42.2	89	33	2.5	62	4 Nor.	F.	\$2.16
		50 lbs 11-48-0	43.2	89	34	2.3	62	4 Nor.	F.	\$2.71
		60 lbs 11-48-0	44.8	89	34	2.3	62	4 Nor.	F.	\$3.25
Necessary Difference—2.73 bushels							Rainfall—May to August—13.28 inches			

<b>Blaine Q. Coleman, Whitewood</b>										
7	8	Zero	37.3	—	—	2.0	61	4 Nor.	F.	—
		30 lbs 11-48-0	38.7	—	—	2.0	60	4 Nor.	F.	\$1.62
		40 lbs 11-48-0	41.5	—	—	2.0	60	4 Nor.	F.	\$2.16
		50 lbs 11-48-0	35.5	—	—	2.0	59	4 Nor.	F.	\$2.71
		60 lbs 11-48-0	38.1	—	—	2.0	60	4 Nor.	F.	\$3.25
Yield differences not significant							Rainfall—May to August—13.48 inches			

<b>Everett Smart, Hazelcliffe</b>										
7	9	Zero	43.7	—	38	4.8	63	1 Nor.	—	—
		30 lbs 11-48-0	46.1	—	39	4.8	63	1 Nor.	—	\$1.62
		40 lbs 11-48-0	44.7	—	38	4.5	63	1 Nor.	—	\$2.16
		50 lbs 11-48-0	48.2	—	38	4.5	63	1 Nor.	—	\$2.71
		60 lbs 11-48-0	46.4	—	38	4.5	63	1 Nor.	—	\$3.25
Yield differences not significant							Rainfall—May to August—14.04 inches			

## WHEAT POOL DISTRICT 8

<b>Paul Berg, Springside</b>										
8	4	Zero	27.1	—	—	—	59	2 Nor.	S.	—
		30 lbs. 11-48-0	27.2	—	—	—	60	2 Nor.	S.	\$1.65
		40 lbs. 11-48-0	28.1	—	—	—	60	2 Nor.	S.	\$2.20
		50 lbs. 11-48-0	27.8	—	—	—	61	2 Nor.	S.	\$2.75
		60 lbs. 11-48-0	29.0	—	—	—	60	2 Nor.	S.	\$3.30
Yield differences not significant							Rainfall—May to August—Incomplete			

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

8	5	Harold Lucash, Verigin
8	9	Ned Kosteniuk, Danbury

## WHEAT POOL DISTRICT 9

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Lawrence Jankoski, Ituna</b>										
9	1	Zero	27.3	—	—	—	61	No. 5	—	—
		30 lbs. 11-48-0	28.3	—	—	—	61	No. 5	—	\$1.65
		40 lbs. 11-48-0	27.8	—	—	—	61	No. 5	—	\$2.20
		50 lbs. 11-48-0	27.2	—	—	—	60	No. 5	—	\$2.75
		60 lbs. 11-48-0	28.3	—	—	—	60	No. 5	—	\$3.30
Yield differences not significant					Rainfall—May to August—7.52 inches					

<b>Richard W. Duthie, Silton</b>										
9	4	Zero	18.5	80	20	1.3	57	3 Nor.	Bl., S.	—
		30 lbs. 11-48-0	20.0	80	21	1.5	56	4 Nor.	Bl., S.	\$1.65
		40 lbs. 11-48-0	19.3	80	21	1.2	56	4 Nor.	Bl., S.	\$2.20
		50 lbs. 11-48-0	19.7	80	21	1.5	56	4 Nor.	Bl., S.	\$2.75
		60 lbs. 11-48-0	20.3	80	21	1.5	57	3 Nor.	Bl., S.	\$3.30
Yield differences not significant					Rainfall—May to August—5.01 inches					

<b>Billy Read, Govan</b>										
9	5	Zero	10.4	88	16	3.0	59	3 Nor.	S.	—
		30 lbs. 11-48-0	11.1	88	18	3.3	59	3 Nor.	S.	\$1.65
		40 lbs. 11-48-0	11.4	87	18	2.3	59	3 Nor.	S.	\$2.20
		50 lbs. 11-48-0	11.3	87	18	3.0	60	3 Nor.	S.	\$2.75
		60 lbs. 11-48-0	12.0	87	18	2.8	59	3 Nor.	S.	\$3.30
Yield differences not significant					Rainfall—May to August—6.54 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

9      3      Donald Johnson, Kelliher

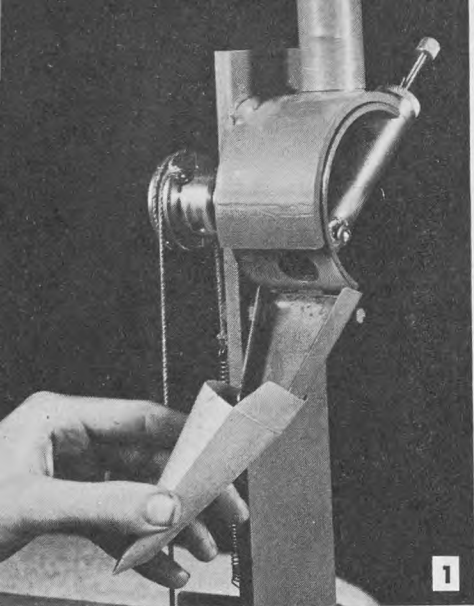
## WHEAT POOL DISTRICT 10

<b>Brian E. Gottselig, Chamberlain</b>										
10	1	Zero	17.9	84	31	1.3	59	3 Nor.	S.	—
		30 lbs. 11-48-0	20.1	84	31	1.3	59	3 Nor.	S.	\$1.63
		40 lbs. 11-48-0	19.5	84	31	1.5	59	3 Nor.	S.	\$2.17
		50 lbs. 11-48-0	20.1	84	31	1.0	60	3 Nor.	S.	\$2.72
		60 lbs. 11-48-0	21.2	84	31	1.5	59	3 Nor.	S.	\$3.26
Necessary Difference—2.04 bushels					Rainfall—May to August—6.40 inches					

<b>Neil Seaman, Tugaskie</b>										
10	2	Zero	16.9	91	21	2.0	60	2 Nor.	S.	—
		30 lbs. 11-48-0	18.9	91	22	2.0	60	2 Nor.	S.	\$1.63
		40 lbs. 11-48-0	19.1	91	22	2.0	60	2 Nor.	S.	\$2.17
		50 lbs. 11-48-0	18.0	91	22	2.0	59	3 Nor.	S.	\$2.72
		60 lbs. 11-48-0	18.4	91	22	2.0	60	2 Nor.	S.	\$3.26
Yield differences not significant					Rainfall—May to August—5.01 inches					

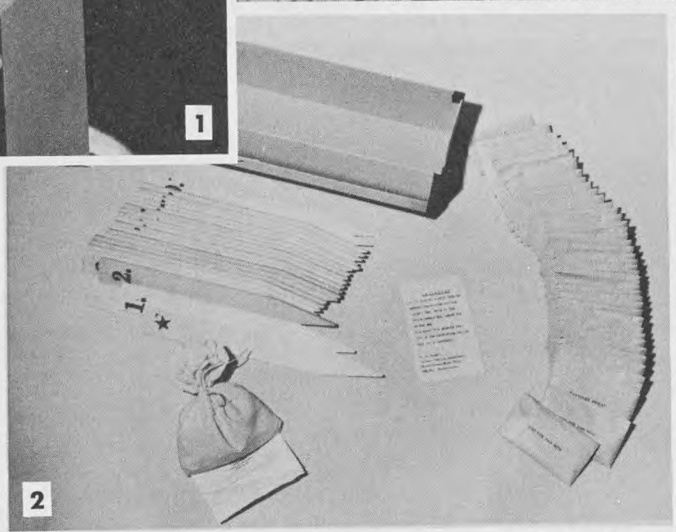
<b>Lyle D. Bradshaw, Milden</b>										
10	4	Zero	—	—	—	—	58	3 Nor.	S., Bl.	—
		30 lbs. 11-48-0	—	—	—	—	59	3 Nor.	S., Bl.	\$1.63
		40 lbs. 11-48-0	—	—	—	—	60	3 Nor.	S., Bl.	\$2.17
		50 lbs. 11-48-0	—	—	—	—	59	3 Nor.	S., Bl.	\$2.72
		60 lbs. 11-48-0	—	—	—	—	60	3 Nor.	S., Bl.	\$3.26
Test damaged—yields not reliable					Rainfall—May to August—incomplete					

<b>Vernon Simonson, Dunblane</b>										
10	5	Zero	12.1	81	—	2.0	63	1 Nor.	—	—
		30 lbs. 11-48-0	12.1	81	—	2.0	64	1 Nor.	—	\$1.63
		40 lbs. 11-48-0	11.7	81	—	2.0	64	1 Nor.	—	\$2.17
		50 lbs. 11-48-0	12.4	81	—	2.0	65	1 Nor.	—	\$2.72
		60 lbs. 11-48-0	12.4	81	—	2.0	64	1 Nor.	—	\$3.26
Yield differences not significant					Rainfall—May to August—2.04 inches					

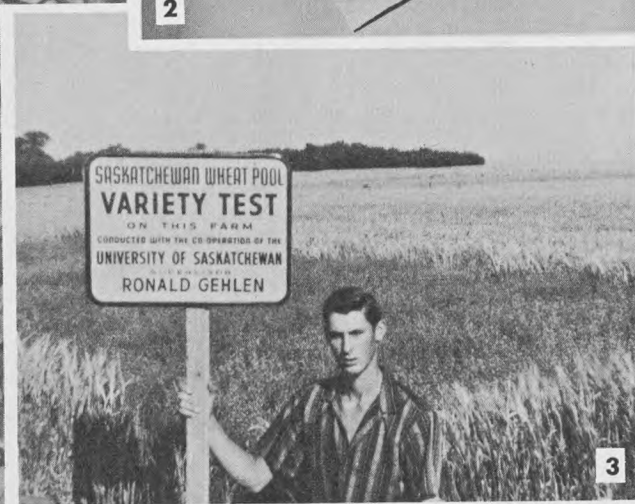


1

1. This machine measures seed for each
2. A package of seed was supplied to e
3. A colorful sign marked the location of
4. Supervisors visited their tests frequen
5. Varieties or fertilizer treatments we
6. stages.
6. Daily rainfall records were kept. little to report.
7. A special rod-row thresher was used
8. Yield calculation and analysis was McLeod.



2



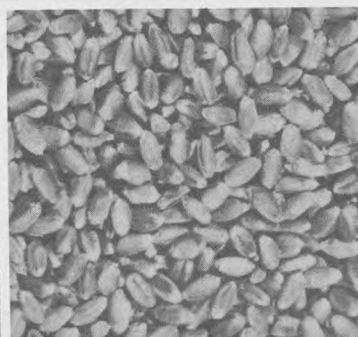
3



4



row.  
each supervisor.  
each test.  
ntly during the summer.  
re compared at various  
some areas there was  
to thresh the grain.  
supervised by A. D.



# WHEAT POOL DISTRICT 10—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Michael J. Cornish, Girvin</b>										
10	7	Zero	14.7	—	—	—	59	2 Nor.	Bl.	—
		30 lbs. 11-48-0	12.7	—	—	—	59	2 Nor.	Bl.	\$1.63
		40 lbs. 11-48-0	15.9	—	—	—	59	2 Nor.	Bl.	\$2.17
		50 lbs. 11-48-0	14.3	—	—	—	59	2 Nor.	Bl.	\$2.72
		60 lbs. 11-48-0	14.0	—	—	—	59	2 Nor.	Bl.	\$3.26
Yield differences not significant				Rainfall—May to August—Incomplete						

<b>John Jay Henryk, Kenaston</b>										
10	9	Zero	28.3	112	30	1.0	63	2 Nor.	S.	—
		30 lbs. 11-48-0	30.3	112	29	1.0	63	2 Nor.	S.	\$1.63
		40 lbs. 11-48-0	31.9	112	30	1.0	63	2 Nor.	S.	\$2.17
		50 lbs. 11-48-0	33.6	112	30	1.0	64	1 Nor.	—	\$2.72
		60 lbs. 11-48-0	34.1	112	30	1.0	64	1 Nor.	—	\$3.26
Necessary Difference—3.75 bushels				Rainfall—May to August—7.85 inches						

# WHEAT POOL DISTRICT 11

<b>Glen Sweet, Forgan</b>										
11	2	Zero	23.1	—	24	—	63	2 Nor.	S.	—
		30 lbs. 11-48-0	24.0	—	27	—	62	2 Nor.	S.	\$1.63
		40 lbs. 11-48-0	25.2	—	27	—	62	2 Nor.	S.	\$2.17
		50 lbs. 11-48-0	24.2	—	27	—	62	2 Nor.	S.	\$2.72
		60 lbs. 11-48-0	27.2	—	28	—	62	2 Nor.	S.	\$3.26
Yield differences not significant				Rainfall—May to August—incomplete						

<b>Karen and Helen Ostevik, Eston</b>										
11	3	Zero	16.6	—	20	2.3	58	No. 5	F.	—
		30 lbs. 11-48-0	16.9	—	20	2.3	58	No. 5	F.	\$1.63
		40 lbs. 11-48-0	16.2	—	20	2.0	58	No. 5	F.	\$2.17
		50 lbs. 11-48-0	18.1	—	21	2.0	57	No. 5	F.	\$2.72
		60 lbs. 11-48-0	19.0	—	21	2.5	58	No. 5	F.	\$3.26
Yield differences not significant				Rainfall—May to August—7.63 inches						

<b>Keith Ahrens, Rosetown</b>										
11	7	Zero	14.3	86	21	2.3	63	2 Nor.	S.	—
		30 lbs. 11-48-0	14.8	84	21	1.5	63	2 Nor.	S.	\$1.63
		40 lbs. 11-48-0	16.5	84	22	2.0	63	2 Nor.	S.	\$2.17
		50 lbs. 11-48-0	14.0	85	22	2.0	63	2 Nor.	S.	\$2.72
		60 lbs. 11-48-0	16.0	84	21	1.3	63	2 Nor.	S.	\$3.26
Yield differences not significant				Rainfall—May to August—4.42 inches						

<b>Robert L. Horton, Dodsland</b>										
11	9	Zero	20.7	—	—	—	60	4 Nor.	F.	—
		30 lbs. 11-48-0	21.7	—	—	—	60	4 Nor.	F.	\$1.63
		40 lbs. 11-48-0	19.3	—	—	—	60	4 Nor.	F.	\$2.17
		50 lbs. 11-48-0	20.3	—	—	—	61	4 Nor.	F.	\$2.72
		60 lbs. 11-48-0	20.9	—	—	—	61	4 Nor.	F.	\$3.26
Yield differences not significant				Rainfall—May to August—Incomplete						

<b>Cheryl A. Kumph, Smiley</b>										
11	10	Zero	10.1	—	18	3.8	63	2 Nor.	S.	—
		30 lbs. 11-48-0	7.5	—	18	3.0	62	2 Nor.	S.	\$1.63
		40 lbs. 11-48-0	11.0	—	20	3.3	63	2 Nor.	S.	\$2.17
		50 lbs. 11-48-0	9.0	—	18	3.5	62	2 Nor.	S.	\$2.72
		60 lbs. 11-48-0	10.2	—	19	2.8	63	2 Nor.	S.	\$3.26
Necessary difference—1.62 bushels				Rainfall—May to August—7.75 inches						

## WHEAT POOL DISTRICT 12

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Murray Wood, Ruthilda</b>										
12	3	Zero	20.4	—	—	—	59	2 Nor.	Bl.	—
		30 lbs. 11-48-0	22.2	—	—	—	58	2 Nor.	Spr.	\$1.64
		40 lbs. 11-48-0	21.2	—	—	—	59	2 Nor.	Bl.	\$2.19
		50 lbs. 11-48-0	22.2	—	—	—	59	2 Nor.	Bl.	\$2.73
		60 lbs. 11-48-0	21.3	—	—	—	60	2 Nor.	Bl.	\$3.28
Yield differences not significant				Rainfall—May to August—Incomplete						

<b>John Fluney, Tramping Lake</b>										
12	4	Zero	16.5	—	—	—	60	2 Nor.	Bl.	—
		30 lbs. 11-48-0	17.6	—	—	—	60	2 Nor.	Bl.	\$1.64
		40 lbs. 11-48-0	18.1	—	—	—	60	2 Nor.	Bl.	\$2.19
		50 lbs. 11-48-0	18.0	—	—	—	59	2 Nor.	Bl.	\$2.73
		60 lbs. 11-48-0	18.5	—	—	—	60	2 Nor.	Bl.	\$3.28
Yield differences not significant				Rainfall—May to August—Incomplete						

<b>Ronald P. Koenig, Reward</b>										
12	5	Zero	23.2	108	26	1.8	62	2 Nor.	S.	—
		30 lbs. 11-48-0	20.5	104	22	2.0	62	2 Nor.	S.	\$1.64
		40 lbs. 11-48-0	27.5	104	25	2.0	62	2 Nor.	S.	\$2.19
		50 lbs. 11-48-0	27.6	104	26	1.8	62	2 Nor.	S.	\$2.73
		60 lbs. 11-48-0	30.7	103	25	1.5	62	2 Nor.	S.	\$3.28
Necessary difference—6.83 bushels				Rainfall—May to August—7.54 inches						

<b>Linden C. O'Grady, Neilburg</b>										
12	8	Zero	26.5	—	—	—	60	4 Nor.	F.	—
		30 lbs. 11-48-0	26.1	—	—	—	60	4 Nor.	F.	\$1.64
		40 lbs. 11-48-0	23.1	—	—	—	60	4 Nor.	F.	\$2.19
		50 lbs. 11-48-0	22.0	—	—	—	60	4 Nor.	F.	\$2.73
		60 lbs. 11-48-0	21.4	—	—	—	60	4 Nor.	F.	\$3.28
Yield differences not significant				Rainfall—May to August—7.33 inches						

<b>John G. Rutley, Cutknife</b>										
12	9	Zero	42.7	98	30	2.0	63	2 Nor.	S.	—
		30 lbs. 11-48-0	46.4	97	29	2.0	63	2 Nor.	S.	\$1.64
		40 lbs. 11-48-0	46.6	97	31	2.0	63	2 Nor.	S.	\$2.19
		50 lbs. 11-48-0	43.1	97	31	2.0	63	2 Nor.	S.	\$2.73
		60 lbs. 11-48-0	45.8	97	31	2.0	63	2 Nor.	S.	\$3.28
Yield differences not significant				Rainfall—May to August—7.87 inches						

## WHEAT POOL DISTRICT 13

<b>Brian G. Richert, Young</b>										
13	2	Zero	20.0	86	26	3.0	65	1 Nor.	—	—
		30 lbs. 11-48-0	19.9	86	27	3.0	66	1 Nor.	—	\$1.64
		40 lbs. 11-48-0	21.8	86	27	3.0	65	1 Nor.	—	\$2.19
		50 lbs. 11-48-0	21.7	87	27	3.0	64	1 Nor.	—	\$2.73
		60 lbs. 11-48-0	21.1	86	27	3.0	65	1 Nor.	—	\$3.28
Necessary difference—1.38 bushels				Rainfall—May to August—5.20 inches						

<b>Gerald Koop, Dundurn</b>										
13	3	Zero	19.9	103	19	1.0	65	1 Nor.	—	—
		30 lbs. 11-48-0	23.8	104	20	1.0	64	1 Nor.	—	\$1.64
		40 lbs. 11-48-0	25.3	104	20	2.0	65	1 Nor.	—	\$2.19
		50 lbs. 11-48-0	26.1	105	20	2.0	65	1 Nor.	—	\$2.73
		60 lbs. 11-48-0	26.2	105	21	2.0	65	1 Nor.	—	\$3.28
Necessary difference—3.65 bushels				Rainfall—May to August—7.06 inches						

# WHEAT POOL DISTRICT 13—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Dennis Viczko, Prud'homme</b>										
13	8	Zero	21.3	—	—	—	46	Fd.	F.	—
		30 lbs. 11-48-0	24.3	—	—	—	48	Fd.	F.	\$1.64
		40 lbs. 11-48-0	24.6	—	—	—	46	Fd.	F.	\$2.19
		50 lbs. 11-48-0	26.2	—	—	—	47	Fd.	F.	\$2.73
		60 lbs. 11-48-0	26.9	—	—	—	47	Fd.	F.	\$3.28
Necessary difference—2.67 bushels			Rainfall—May to August—Incomplete							

<b>Wilfred H. Wilger, Englefeld</b>										
13	11	Zero	37.6	114	29	2.0	63	3 Nor.	F.	—
		30 lbs. 11-48-0	43.0	114	31	2.0	63	3 Nor.	F.	\$1.64
		40 lbs. 11-48-0	41.7	113	30	2.0	62	3 Nor.	F.	\$2.19
		50 lbs. 11-48-0	39.8	113	30	2.0	62	3 Nor.	F.	\$2.73
		60 lbs. 11-48-0	43.2	114	30	2.0	63	3 Nor.	F.	\$3.28
Necessary difference—3.32 bushels			Rainfall—May to August—9.20 inches							

# WHEAT POOL DISTRICT 14

<b>Terry Smale, Kylemore</b>										
14	1	Zero	18.9	—	34	8.0	49	Fd.	F.	—
		30 lbs. 11-48-0	19.3	—	34	8.0	50	Fd.	F.	\$1.66
		40 lbs. 11-48-0	17.8	—	34	8.0	49	Fd.	F.	\$2.21
		50 lbs. 11-48-0	16.1	—	34	8.0	50	Fd.	F.	\$2.76
		60 lbs. 11-48-0	16.8	—	34	8.0	51	No. 6	F.	\$3.31
Yield differences not significant			Rainfall—May to August—11.60 inches							

<b>Garth A. Hardie, Jordan River</b>										
14	10	Zero	19.1	104	24	7.5	56	4 Nor.	G.	—
		30 lbs. 11-48-0	20.8	104	24	6.8	55	No. 5	G.	\$1.66
		40 lbs. 11-48-0	21.2	104	25	7.3	57	4 Nor.	G.	\$2.21
		50 lbs. 11-48-0	23.2	104	24	7.0	56	4 Nor.	G.	\$2.76
		60 lbs. 11-48-0	22.0	104	23	6.0	55	No. 5	G.	\$3.31
Yield differences not significant			Rainfall—May to August—9.23 inches							

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

14	8	Garry Stevenson, Ethelton								
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# WHEAT POOL DISTRICT 15

<b>Sylvester Kramchynsky, Fish Creek</b>										
15	2	Zero	11.6	94	15	2.5	61	4 Nor.	F.	—
		30 lbs. 11-48-0	11.3	94	16	2.0	61	4 Nor.	F.	\$1.65
		40 lbs. 11-48-0	11.3	94	15	2.0	61	4 Nor.	F.	\$2.20
		50 lbs. 11-48-0	9.7	94	15	2.3	61	4 Nor.	F.	\$2.75
		60 lbs. 11-48-0	12.9	94	15	2.3	62	4 Nor.	F.	\$3.30
Yield differences not significant			Rainfall—May to August—4.72 inches							

<b>Myles Hradec, Steep Creek</b>										
15	3	Zero	10.0	—	20	2.8	62	2 Nor.	Bl.	—
		30 lbs. 11-48-0	10.5	—	21	3.0	62	2 Nor.	Bl.	\$1.65
		40 lbs. 11-48-0	9.4	—	19	3.3	62	2 Nor.	Bl.	\$2.20
		50 lbs. 11-48-0	9.9	—	19	3.5	61	2 Nor.	Bl.	\$2.75
		60 lbs. 11-48-0	11.1	—	20	3.0	62	2 Nor.	Bl.	\$3.30
Yield differences not significant			Rainfall—May to August—5.60 inches							

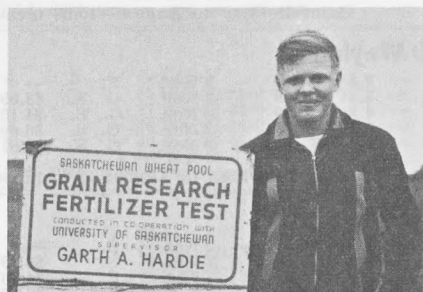
<b>Raymond A. Provencher, Foxdale</b>										
15	8	Zero	11.5	—	—	—	61	4 Nor.	F.	—
		30 lbs. 11-48-0	11.2	—	—	—	61	4 Nor.	F.	\$1.65
		40 lbs. 11-48-0	10.3	—	—	—	61	4 Nor.	F.	\$2.20
		50 lbs. 11-48-0	11.1	—	—	—	61	4 Nor.	F.	\$2.75
		60 lbs. 11-48-0	10.5	—	—	—	61	4 Nor.	F.	\$3.30
Yield differences not significant			Rainfall—May to August—5.95 inches							

# WHEAT POOL DISTRICT 15—Continued

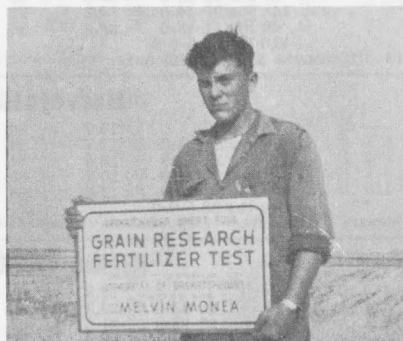
Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
Susan A. Moltiwienik, Foxford										
15	10	Zero	15.8	—	—	—	59	No. 6	F.	—
		30 lbs. 11-48-0	14.2	—	—	—	60	No. 6	F.	\$1.65
		40 lbs. 11-48-0	15.9	—	—	—	59	No. 6	F.	\$2.20
		50 lbs. 11-48-0	19.3	—	—	—	59	No. 6	F.	\$2.75
		60 lbs. 11-48-0	17.6	—	—	—	60	No. 6	F.	\$3.30
Necessary difference—2.88 bushels							Rainfall—May to August—6.43 inches			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:										
15	9	Ricky Anderson, North Side								

# WHEAT POOL DISTRICT 16

Kenneth Wright, RR No. 1, Richard										
16	2	Zero	7.4	114	17	2.0	61	2 Nor.	Bl.	—
		30 lbs. 11-48-0	8.9	114	18	1.8	61	2 Nor.	Bl.	\$1.66
		40 lbs. 11-48-0	9.0	114	19	2.0	61	2 Nor.	Bl.	\$2.22
		50 lbs. 11-48-0	8.1	114	18	2.5	61	2 Nor.	Bl.	\$2.77
		60 lbs. 11-48-0	9.8	114	20	3.0	61	2 Nor.	Bl.	\$3.33
Yield differences not significant					Rainfall—May to August—4.89 inches					
Dale Ewanchuk, Whitkow										
16	3	Zero	12.5	—	—	—	59	2 Nor.	Bl.	—
		30 lbs. 11-48-0	12.8	—	—	—	59	2 Nor.	Bl.	\$1.66
		40 lbs. 11-48-0	14.5	—	—	—	59	2 Nor.	Bl.	\$2.22
		50 lbs. 11-48-0	14.6	—	—	—	60	2 Nor.	Bl.	\$2.77
		60 lbs. 11-48-0	13.1	—	—	—	60	2 Nor.	Bl.	\$3.33
Yield differences not significant					Rainfall—May to August—Incomplete					
Robert and Faye Weiler, Paradise Hill										
16	7	Zero	24.9	—	—	—	51	No. 6	F.	—
		30 lbs. 11-48-0	24.8	—	—	—	53	No. 6	F.	\$1.66
		40 lbs. 11-48-0	22.0	—	—	—	53	No. 6	F.	\$2.22
		50 lbs. 11-48-0	23.5	—	—	—	52	No. 6	F.	\$2.77
		60 lbs. 11-48-0	22.5	—	—	—	51	No. 6	F.	\$3.33
Yield differences not significant					Rainfall—May to August—11.57 inches					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:										
16	1	Ronald Ferris, Fielding								
16	10	Joseph F. Orosz, Spiritwood								



Garth Hardie conducted a fertilizer test on summerfallow at Jordan River.



Melvin Monea of Killdeer posed with his sign after his fertilizer test had been harvested.



Table No. 26

# Individual Test Results - Fertilizer on Stubble

The results of all successful fertilizer tests on stubble are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

**IMPORTANT**—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviation under "Grading Remarks" see page 9.  
An explanation of "Cost of Fertilizer" can be found on page 9.

## WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
G. Lyle Fee, Alameda										
1	3	Zero	14.8	102	33	2.0	59	2 Nor.	S.	—
		65 lbs 23-23-0	16.2	102	33	8.0	60	2 Nor.	S.	\$3.09
		87 lbs 23-23-0	17.3	102	33	7.3	60	2 Nor.	S.	\$4.13
		148 lbs 27-14-0	16.2	102	33	7.0	59	2 Nor.	S.	\$6.66
		40 lbs 11-48-0	16.8	102	33	5.8	60	2 Nor.	S.	\$12.07
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—Incomplete						
Herbert Ganz, Browning										
1	4	Zero	19.2	80	24	2.5	60	2 Nor.	S.	—
		65 lbs 23-23-0	20.5	80	27	1.5	60	2 Nor.	S.	\$3.09
		87 lbs 23-23-0	20.6	78	26	2.3	60	2 Nor.	S.	\$4.13
		148 lbs 27-14-0	19.4	79	26	2.0	60	2 Nor.	S.	\$6.66
		40 lbs 11-48-0	20.2	78	26	1.8	60	2 Nor.	S.	\$12.07
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—7.11 inches						
Herman Slotsve, Torquay										
1	6	Zero	26.6	93	33	1.0	58	3 Nor.	S.	—
		65 lbs 23-23-0	28.5	93	32	1.0	58	3 Nor.	S.	\$3.09
		87 lbs 23-23-0	29.3	93	31	1.0	58	3 Nor.	S.	\$4.13
		148 lbs 27-14-0	30.2	93	32	1.0	57	3 Nor.	S.	\$6.66
		40 lbs 11-48-0	29.9	93	31	1.0	57	3 Nor.	S.	\$12.07
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—10.68 inches						
Harvey Halbert, Weyburn										
1	8	Zero	10.7	84	12	3.5	60	3 Nor.	F. S.	—
		65 lbs 23-23-0	12.7	84	13	3.8	59	3 Nor.	G., S.	\$3.09
		87 lbs 23-23-0	13.6	84	13	4.3	59	3 Nor.	G., S.	\$4.13
		148 lbs 27-14-0	10.7	83	12	3.8	59	3 Nor.	G., S.	\$6.66
		40 lbs 11-48-0	11.8	84	12	4.0	60	3 Nor.	G., S.	\$12.07
		+240 lbs 33.5-0-0								
Necessary Difference—1.69 bushels				Rainfall—May to August—8.65 inches						
Rickie De Geer, Wordsworth										
1	10	Zero	15.8	93	23	2.0	57	3 Nor.	S.	—
		65 lbs. 23-23-0	22.3	93	24	3.0	58	3 Nor.	S.	\$3.09
		87 lbs. 23-23-0	21.0	93	24	3.0	57	3 Nor.	S.	\$4.13
		148 lbs. 27-14-0	20.2	93	24	3.0	58	3 Nor.	S.	\$6.66
		40 lbs. 11-48-0	19.4	93	24	3.0	57	3 Nor.	S.	\$12.07
		+240 lbs. 33.5-0-0								
Necessary Difference—2.70 bushels				Rainfall—May to August—8.99 inches						

## WHEAT POOL DISTRICT 2

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Brian B. Hillier, Coronach</b>										
2	3	Zero	8.2	103	21	1.3	59	3 Nor.	S.	—
		65 lbs. 23-23-0	7.7	100	21	1.3	59	3 Nor.	S.	3.05
		87 lbs. 23-23-0	8.4	99	21	1.3	60	3 Nor.	S.	4.08
		148 lbs. 27-14-0	6.8	102	22	1.3	60	3 Nor.	S.	6.57
		40 lbs. 11-48-0	9.3	101	24	1.8	60	3 Nor.	S.	\$11.89
		+240 lbs. 33.5-0-0								
Yield differences not significant					Rainfall—May to August—6.01 inches					

<b>Garry Holt, Bengough</b>										
2	11	Zero	10.7	78	32	—	57	3 Nor.	Bl., S.	—
		65 lbs. 23-23-0	10.6	84	29	—	56	4 Nor.	Bl., S.	3.05
		87 lbs. 23-23-0	11.8	77	30	—	56	4 Nor.	Bl., S.	4.08
		148 lbs. 27-14-0	9.5	82	30	—	55	4 Sp.	Bl., S.	6.57
		40 lbs. 11-48-0	10.0	82	32	—	57	3 Nor.	Bl., S.	\$11.89
		+240 lbs. 33.5-0-0								
Yield differences not significant					Rainfall—May to August—6.33 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

2      7      Kelvin Ruzicka, Limerick

## WHEAT POOL DISTRICT 3

<b>Hugh McDonough, Crichton</b>										
3	9	Zero	8.3	81	23	1.3	55	4 Sp.	S.	—
		65 lbs. 23-23-0	7.4	81	23	2.0	54	No. 5	S.	3.05
		87 lbs. 23-23-0	7.6	81	24	1.5	55	4 Sp.	S.	4.08
		148 lbs. 27-14-0	5.2	81	22	2.3	55	4 Sp.	S.	6.57
		40 lbs. 11-48-0	7.9	81	22	1.5	54	No. 5	S.	\$12.04
		+240 lbs. 33.5-0-0								
Necessary difference—1.15 bushels					Rainfall—May to August—5.37 inches					

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

3      2      David Peno, Bracken

## WHEAT POOL DISTRICT 4

<b>T. Graham Cammell, Tompkins</b>										
4	1	Zero	10.4	82	26	3.5	56	4 Nor.	S.	—
		65 lbs. 23-23-0	9.7	82	26	3.3	54	4 Sp.	Bl., S.	3.00
		87 lbs. 23-23-0	11.1	82	26	3.3	55	4 Sp.	Bl., S.	4.02
		148 lbs. 27-14-0	9.9	82	26	3.5	54	4 Sp.	Bl., S.	6.47
		40 lbs. 11-48-0	9.9	82	26	3.3	53	No. 5	S.	\$11.69
		+240 lbs. 33.5-0-0								
Yield differences not significant					Rainfall—May to August—8.60 inches					

### Donald Redick, Maple Creek

4	2	Zero	8.8	—	—	—	50	Fd.	Bl., S.	—
		65 lbs. 23-23-0	8.3	—	—	—	49	Fd.	Bl., S.	3.00
		87 lbs. 23-23-0	8.3	—	—	—	50	Fd.	Bl., S.	4.02
		148 lbs. 27-14-0	8.3	—	—	—	50	Fd.	Bl., S.	6.47
		40 lbs. 11-48-0	7.8	—	—	—	48	Fd.	Bl., S.	\$11.69
		+240 lbs. 33.5-0-0								
Yield differences not significant					Rainfall—May to August—4.90 inches					

### Don H. Campbell, Swift Current

4	3	Zero	12.7	—	—	—	60	3 Nor.	S.	—
		65 lbs. 23-23-0	13.1	—	—	—	61	3 Nor.	S.	3.00
		87 lbs. 23-23-0	11.5	—	—	—	61	3 Nor.	S.	4.02
		148 lbs. 27-14-0	10.6	—	—	—	62	3 Nor.	S.	6.47
		40 lbs. 11-48-0	11.8	—	—	—	62	3 Nor.	S.	\$11.69
		+240 lbs. 33.5-0-0								
Necessary difference—1.63 bushels					Rainfall—May to August—5.05 inches					

# WHEAT POOL DISTRICT 4—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Reginald Benjamin, Webb</b>										
4	4	Zero	12.0	79	24	1.0	56	4 Nor.	Bl., S.	—
		65 lbs. 23-23-0	12.9	78	25	1.0	57	3 Nor.	S.	\$ 3.00
		87 lbs. 23-23-0	11.1	78	23	1.3	57	3 Nor.	Bl., S.	\$ 4.02
		148 lbs. 27-14-0	11.5	78	24	1.0	57	3 Nor.	Bl., S.	\$ 6.47
		40 lbs. 11-48-0	12.6	79	25	1.8	55	4 Sp.	Bl., S.	\$11.69
		+240 lbs. 33.5-0-0								
Rainfall—May to August—6.04 inches										
Test seeded on summerfallow—not included in district summary.										

# WHEAT POOL DISTRICT 5

<b>Deles Yaschuk, Vantage</b>										
5	1	Zero	9.9	87	22	2.5	60	4 Nor.	S., F.	—
		65 lbs. 23-23-0	10.6	86	23	2.0	60	4 Nor.	S., F.	\$ 3.04
		87 lbs. 23-23-0	11.5	85	22	2.0	61	4 Nor.	S., F.	\$ 4.07
		148 lbs. 27-14-0	9.8	86	21	1.8	60	4 Nor.	S., F.	\$ 6.56
		40 lbs. 11-48-0	11.0	85	22	2.5	60	4 Nor.	S., F.	\$11.87
		+240 lbs. 33.5-0-0								
Yield differences not significant										
Rainfall—May to August—3.39 inches										
<b>John M. Heinrichs, Neville</b>										
5	3	Zero	5.3	117	16	—	53	No. 5	S.	—
		65 lbs. 23-23-0	3.7	117	15	—	53	No. 5	S.	\$ 3.04
		87 lbs. 23-23-0	4.0	117	16	—	54	No. 5	S.	\$ 4.07
		148 lbs. 27-14-0	5.1	117	15	—	53	No. 5	S.	\$ 6.56
		40 lbs. 11-48-0	3.9	117	15	—	53	No. 5	S.	\$11.87
		+240 lbs. 33.5-0-0								
Yield differences not significant										
Rainfall—May to August—6.96 inches										

# Carl D. Ekdahl, Hodgeville

5	5	Zero	—	71	22	3.0	54	4 Sp.	S.	—
		65 lbs. 23-23-0	—	70	21	2.8	54	4 Sp.	S.	\$ 3.04
		87 lbs. 23-23-0	—	71	23	2.0	56	4 Nor.	S.	\$ 4.07
		148 lbs. 27-14-0	—	71	22	2.5	56	4 Nor.	S.	\$ 6.56
		40 lbs. 11-48-0	—	71	22	2.3	55	4 Sp.	S.	\$11.87
		+240 lbs. 33.5-0-0								
Incorrect fertilizer application—results not reliable										
Rainfall—May to August—6.60 inches										

# Jim A. McGillivray, Central Butte

5	9	Zero	11.1	85	16	4.0	60	3 Nor.	S.	—
		65 lbs. 23-23-0	11.9	85	16	4.0	61	2 Nor.	S.	\$ 3.04
		87 lbs. 23-23-0	11.3	85	16	4.0	60	3 Nor.	S.	\$ 4.07
		148 lbs. 27-14-0	11.0	85	16	4.0	61	2 Nor.	S.	\$ 6.56
		40 lbs. 11-48-0	11.9	85	16	4.0	60	3 Nor.	S.	\$11.87
		+240 lbs. 33.5-0-0								
Yield differences not significant										
Rainfall—May to August—5.12 inches										

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

5 8 John Aitken, Eyebrow

# WHEAT POOL DISTRICT 6

<b>Catherine Moats, Gray</b>										
6	2	Zero	29.7	97	31	1.0	62	2 Nor.	S.	—
		65 lbs. 23-23-0	33.8	94	36	1.0	62	2 Nor.	S.	\$ 3.05
		87 lbs. 23-23-0	34.9	94	35	1.0	63	2 Nor.	S.	\$ 4.08
		148 lbs. 27-14-0	39.0	94	36	1.0	62	2 Nor.	S.	\$ 6.57
		40 lbs. 11-48-0	42.4	91	37	1.0	62	2 Nor.	S.	\$11.89
		+240 lbs. 33.5-0-0								
Necessary difference—3.22 bushels										
Rainfall—May to August—13.88 inches										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

6 1 William H. Wilke, Yellow Grass

6 9 Lansley Gibbens, Balcarres

# WHEAT POOL DISTRICT 7

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Lyle W. Glydon, Kipling</b>										
7	4	Zero	16.9	—	—	—	60	2 Nor.	S.	—
		65 lbs. 23-23-0	21.6	—	—	—	60	2 Nor.	S.	\$ 3.10
		87 lbs. 23-23-0	21.3	—	—	—	59	2 Nor.	S.	\$ 4.15
		148 lbs. 27-14-0	25.1	—	—	—	60	2 Nor.	S.	\$ 6.69
		40 lbs. 11-48-0	25.2	—	—	—	60	2 Nor.	S.	\$12.11
		+240 lbs. 33.5-0-0								
Necessary difference—2.59 bushels			Rainfall—May to August—13.42 inches							

<b>Barry L. MacPherson, Montmartre</b>										
7	6	Zero	27.4	97	—	2.3	61	2 Nor.	Bl.	—
		65 lbs. 23-23-0	33.8	97	—	3.0	61	2 Nor.	Bl.	\$ 3.10
		87 lbs. 23-23-0	33.6	97	—	4.0	61	2 Nor.	Bl.	\$ 4.15
		148 lbs. 27-14-0	39.4	97	—	4.0	62	1 Nor.	—	\$ 6.69
		40 lbs. 11-48-0	35.3	97	—	5.0	61	2 Nor.	Bl.	\$12.11
		+240 lbs. 33.5-0-0								
Necessary difference—4.94 bushels			Rainfall—May to August—11.79 inches							

<b>Ken Stevenson, Percival</b>										
7	8	Zero	34.2	—	—	—	62	2 Nor.	S.	—
		65 lbs. 23-23-0	33.4	—	—	—	62	2 Nor.	S.	\$ 3.10
		87 lbs. 23-23-0	34.8	—	—	—	62	2 Nor.	S.	\$ 4.15
		148 lbs. 27-14-0	32.5	—	—	—	62	2 Nor.	S.	\$ 6.69
		40 lbs. 11-48-0	39.2	—	—	—	63	2 Nor.	S.	\$12.11
		+240 lbs. 33.5-0-0								
Yield differences not significant			Rainfall—May to August—11.60 inches							

<b>Glen Pask, Atwater</b>										
7	10	Zero	38.9	95	33	1.0	61	4 Nor.	F.	—
		65 lbs. 23-23-0	39.8	95	34	1.0	62	4 Nor.	F.	\$ 3.10
		87 lbs. 23-23-0	37.4	95	34	1.0	62	4 Nor.	F.	\$ 4.15
		148 lbs. 27-14-0	39.3	95	33	1.0	63	4 Nor.	F.	\$ 6.69
		40 lbs. 11-48-0	40.7	95	33	1.0	62	4 Nor.	F.	\$12.11
		+240 lbs. 33.5-0-0								
Yield differences not significant			Rainfall—May to August—10.03 inches							

<b>Leon Powell, Waldron</b>										
7	11	Zero	20.1	—	—	—	59	2 Nor.	S.	—
		65 lbs. 23-23-0	25.1	—	—	—	59	2 Nor.	S.	\$ 3.10
		87 lbs. 23-23-0	23.3	—	—	—	59	2 Nor.	S.	\$ 4.15
		148 lbs. 27-14-0	22.8	—	—	—	59	2 Nor.	S.	\$ 6.69
		40 lbs. 11-48-0	25.5	—	—	—	59	2 Nor.	S.	\$12.11
		+240 lbs. 33.5-0-0								
Yield differences not significant			Rainfall—May to August—10.09 inches							

Test discarded on account of damage by flooding, pests, hail, drought or other causes:										
7	1	Douglas Hill, Mair								

# WHEAT POOL DISTRICT 8

<b>Allen E. Kotzer, Langenburg</b>										
8	1	Zero	30.2	91	32	1.0	60	2 Nor.	S.	—
		65 lbs. 23-23-0	29.3	91	31	1.0	60	2 Nor.	S.	\$ 3.16
		87 lbs. 23-23-0	28.9	91	32	1.0	60	2 Nor.	S.	\$ 4.23
		148 lbs. 27-14-0	27.0	91	30	1.0	61	2 Nor.	S.	\$ 6.83
		40 lbs. 11-48-0	27.7	91	30	1.0	60	2 Nor.	S.	\$12.38
		+240 lbs. 33.5-0-0								
Yield differences not significant			Rainfall—May to August—7.54 inches							

<b>Larry Moen, Melville</b>										
8	3	Zero	22.2	105	35	2.0	60	2 Nor.	Bl.	—
		65 lbs. 23-23-0	25.1	105	35	2.0	60	2 Nor.	Bl.	\$ 3.16
		87 lbs. 23-23-0	26.5	105	35	2.0	59	2 Nor.	Bl.	\$ 4.23
		148 lbs. 27-14-0	26.6	105	36	2.0	60	2 Nor.	Bl.	\$ 6.83
		40 lbs. 11-48-0	26.7	104	36	2.0	60	2 Nor.	Bl.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—2.06 bushels			Rainfall—May to August—9.39 inches							

# WHEAT POOL DISTRICT 8—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Zenith Kotyk, Amsterdam</b>										
8	6	Zero	24.8	—	32	1.5	54	No. 6	F.	—
		65 lbs. 23-23-0	26.4	—	33	1.8	55	No. 6	F.	\$ 3.16
		87 lbs. 23-23-0	28.3	—	33	2.3	56	No. 6	F.	\$ 4.23
		148 lbs. 27-14-0	26.0	—	32	2.8	54	No. 6	F.	\$ 6.83
		40 lbs. 11-48-0	28.0	—	33	1.8	55	No. 6	F.	\$12.38
		+240 lbs. 33.5-0-0								
Yield differences not significant				Rainfall—May to August—11.48 inches						

<b>Arnold Hoffman, Sheho</b>										
8	7	Zero	20.2	92	28	2.3	57	3 Nor.	Bl., S.	—
		65 lbs. 23-23-0	22.1	92	25	2.0	58	3 Nor.	Bl., S.	\$ 3.16
		87 lbs. 23-23-0	21.8	91	26	2.5	57	3 Nor.	Bl., S.	\$ 4.23
		148 lbs. 27-14-0	16.4	91	24	2.0	56	4 Nor.	Bl., S.	\$ 6.83
		40 lbs. 11-48-0	22.8	91	27	2.3	58	3 Nor.	Bl., S.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—2.13 bushels				Rainfall—May to August—5.21 inches						

<b>Alan A. Lowe, Hinchliffe</b>										
8	8	Zero	26.6	115	29	1.0	58	No. 5	F.	—
		65 lbs. 23-23-0	27.0	114	28	1.0	53	No. 6	F.	\$ 3.16
		87 lbs. 23-23-0	26.5	116	30	1.0	55	No. 6	F.	\$ 4.23
		148 lbs. 27-14-0	23.3	115	30	1.0	56	No. 5	F.	\$ 6.83
		40 lbs. 11-48-0	27.8	115	30	1.0	57	No. 5	F.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—2.65 bushels				Rainfall—May to August—15.61 inches						

<b>Blanche Canning, Hudson Bay</b>										
8	11	Zero	34.4	—	—	—	62	2 Nor.	Bl.	—
		65 lbs. 23-23-0	36.2	—	—	—	61	2 Nor.	Bl.	\$ 3.16
		87 lbs. 23-23-0	36.0	—	—	—	61	2 Nor.	Bl.	\$ 4.23
		148 lbs. 27-14-0	34.7	—	—	—	62	2 Nor.	Bl.	\$ 6.83
		40 lbs. 11-48-0	36.8	—	—	—	62	2 Nor.	Bl.	\$12.38
		+240 lbs. 33.5-0-0								
Yield differences not significant				Rainfall—May to August—12.22 inches						

# WHEAT POOL DISTRICT 9

<b>Ronald Bosche, Markinch</b>										
9	2	Zero	—	—	—	—	52	No. 6	Bl., S.	—
		65 lbs. 23-23-0	—	—	—	—	53	No. 5	Bl., S.	\$ 3.16
		87 lbs. 23-23-0	—	—	—	—	52	No. 6	S.	\$ 4.23
		148 lbs. 27-14-0	—	—	—	—	52	No. 6	S.	\$ 6.83
		40 lbs. 11-48-0	—	—	—	—	51	No. 6	S.	\$12.38
		+240 lbs. 33.5-0-0								
Unsatisfactory germination—yields not reliable				Rainfall—May to August—Incomplete						

<b>Clarence Konschuh, Nokomis</b>										
9	6	Zero	12.9	104	—	3.0	56	4 Nor.	Bl.	—
		65 lbs. 23-23-0	14.3	104	—	3.0	57	4 Nor.	Bl.	\$ 3.16
		87 lbs. 23-23-0	11.9	104	—	3.0	56	4 Nor.	Bl.	\$ 4.23
		148 lbs. 27-14-0	12.9	104	—	3.0	56	4 Nor.	Bl.	\$ 6.83
		40 lbs. 11-48-0	16.0	104	—	3.0	56	4 Nor.	Bl.	\$12.38
		+240 lbs. 33.5-0-0								
Yield differences not significant				Rainfall—May to August—7.21 inches						

<b>Leonard J. Olafson, Dafoe</b>										
9	8	Zero	15.6	—	—	—	50	Fd.	F.	—
		65 lbs. 23-23-0	14.3	—	—	—	51	No. 6	F.	\$ 3.16
		87 lbs. 23-23-0	15.0	—	—	—	50	Fd.	F.	\$ 4.23
		148 lbs. 27-14-0	11.6	—	—	—	49	Fd.	F.	\$ 6.83
		40 lbs. 11-48-0	17.3	—	—	—	53	No. 6	F.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—2.18 bushels				Rainfall—May to August—8.70 inches						



# WHEAT POOL DISTRICT 9—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Wilmar Kusey, Wishart</b>										
9	9	Zero	26.0	116	23	2.0	59	2 Nor.	Bl.	—
		65 lbs. 23-23-0	22.3	114	23	2.3	58	3 Nor.	G.	\$ 3.16
		87 lbs. 23-23-0	27.5	114	21	3.5	59	3 Nor.	G.	\$ 4.23
		148 lbs. 27-14-0	22.2	113	22	2.3	58	3 Nor.	G.	\$ 6.83
		40 lbs. 11-48-0	27.0	114	24	3.3	59	3 Nor.	G.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—3.46 bushels				Rainfall—May to August—8.79 inches.						

<b>Robert Eyolfson, Leslie</b>										
9	10	Zero	30.1	—	30	1.0	59	No. 5	F.	—
		65 lbs. 23-23-0	33.2	—	30	1.0	59	No. 5	F.	\$ 3.16
		87 lbs. 23-23-0	28.5	—	30	1.0	60	No. 5	F.	\$ 4.23
		148 lbs. 27-14-0	28.1	—	30	1.0	60	No. 5	F.	\$ 6.83
		40 lbs. 11-48-0	33.4	—	30	1.0	60	No. 5	F.	\$12.38
		+240 lbs. 33.5-0-0								
Necessary difference—3.46 bushels				Rainfall—May to August—10.53 inches						

# WHEAT POOL DISTRICT 10

<b>William H. Sheppard, Demaine</b>										
10	3	Zero	8.5	81	18	4.0	59	3 Nor.	S.	—
		65 lbs 23-23-0	8.1	82	17	4.0	59	3 Nor.	S.	\$ 3.12
		87 lbs 23-23-0	7.5	81	18	4.0	59	3 Nor.	S.	\$ 4.17
		148 lbs 27-14-0	6.7	82	17	4.0	60	3 Nor.	S.	\$ 6.73
		40 lbs 11-48-0	7.3	80	17	4.0	59	3 Nor.	S.	\$12.18
		+240 lbs. 33.5-0-0								
Necessary Difference—.94 bushels				Rainfall—May to August—5.72 inches						

<b>Ronald G. Baht, Imperial</b>										
10	8	Zero	20.5	85	—	1.0	61	2 Nor.	Bl.	—
		65 lbs 23-23-0	19.6	85	—	1.0	62	2 Nor.	Bl.	\$ 3.12
		87 lbs 23-23-0	18.4	86	—	1.0	61	2 Nor.	Bl.	\$ 4.17
		148 lbs 27-14-0	18.2	85	—	1.0	62	2 Nor.	Bl.	\$ 6.73
		40 lbs 11-48-0	19.7	85	—	1.0	62	2 Nor.	Bl.	\$12.18
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—6.55 inches						

<b>Gerald R. Kearnan, Delisle</b>										
10	10	Zero	8.0	77	14	1.0	59	3 Nor.	S.	—
		65 lbs 23-23-0	9.1	77	14	1.0	60	3 Nor.	S.	\$ 3.12
		87 lbs 23-23-0	8.3	77	14	1.0	59	3 Nor.	S.	\$ 4.17
		148 lbs 27-14-0	8.4	76	14	1.0	59	3 Nor.	S.	\$ 6.73
		40 lbs 11-48-0	8.8	76	14	1.0	60	3 Nor.	S.	\$12.18
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—4.47 inches						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

10	6	Lyle Joel, Loreburn								
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# WHEAT POOL DISTRICT 11

<b>Wayne C. Vermette, Sanctuary</b>										
11	1	Zero	6.3	99	12	—	61	2 Nor.	S.	—
		65 lbs 23-23-0	5.0	99	12	—	61	2 Nor.	S.	\$ 3.12
		87 lbs 23-23-0	5.2	99	12	—	60	2 Nor.	S.	\$ 4.17
		148 lbs 27-14-0	4.8	99	12	—	61	2 Nor.	S.	\$ 6.73
		40 lbs 11-48-0	5.5	99	12	—	61	2 Nor.	S.	\$12.08
		+240 lbs 33.5-0-0								
Necessary Difference—.93 bushels				Rainfall—May to August—5.28 inches						

# WHEAT POOL DISTRICT 11—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
<b>Herbert Lock, Kindersley</b>										
11	5	Zero	—	—	13	—	55	4 Sp.	Bl.	—
		65 lbs 23-23-0	—	—	13	—	57	4 Nor.	Bl.	\$ 3.12
		87 lbs 23-23-0	—	—	13	—	57	4 Nor.	Bl.	\$ 4.17
		148 lbs 27-14-0	—	—	12	—	57	4 Nor.	Bl.	\$ 6.73
		40 lbs 11-48-0	—	—	13	—	56	4 Nor.	Bl.	\$12.08
		+240 lbs 33.5-0-0								

Test damaged by birds—yields not reliable

Rainfall—May to August—Incomplete

<b>Otto Wichert, Fiske</b>										
11	8	Zero	6.9	95	18	1.0	58	3 Nor.	S., Bl.	—
		65 lbs 23-23-0	6.6	85	18	1.0	57	4 Nor.	S., Bl.	\$ 3.12
		87 lbs 23-23-0	6.7	87	17	1.0	58	3 Nor.	S., Bl.	\$ 4.17
		148 lbs 27-14-0	6.1	85	17	1.0	57	4 Nor.	S., Bl.	\$ 6.73
		40 lbs 11-48-0	6.9	86	17	1.0	58	3 Nor.	S., Bl.	\$12.08
		+240 lbs 33.5-0-0								

Yield differences not significant

Rainfall—May to August—6.66 inches

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

11 6 Lorraine J. Longmire, Kindersley

## WHEAT POOL DISTRICT 12

<b>Barry Gidluck, Biggar</b>										
12	1	Zero	8.6	86	15	4.5	60	2 Nor.	S.	—
		65 lbs 23-23-0	8.6	86	15	4.5	59	3 Nor.	S.	\$ 3.14
		87 lbs 23-23-0	8.4	86	15	4.3	59	3 Nor.	S.	\$ 4.20
		148 lbs 27-14-0	8.1	86	15	4.5	60	2 Nor.	S.	\$ 6.77
		40 lbs 11-48-0	8.8	86	15	5.0	60	2 Nor.	S.	\$12.14
		+240 lbs 33.5-0-0								

Yield differences not significant

Rainfall—May to August—6.93 inches

<b>Fred J. Weinkauff, Primate</b>										
12	6	Zero	23.4	90	25	3.0	61	2 Nor.	S.	—
		65 lbs 23-23-0	29.0	90	25	3.0	60	2 Nor.	S.	\$ 3.14
		87 lbs 23-23-0	26.5	91	25	3.0	61	2 Nor.	S.	\$ 4.20
		148 lbs 27-14-0	27.6	90	25	3.0	60	2 Nor.	S.	\$ 6.77
		40 lbs 11-48-0	26.5	89	25	3.0	60	2 Nor.	S.	\$12.14
		+240 lbs 33.5-0-0								

Yield differences not significant

Rainfall—May to August—8.84 inches

<b>Albert Evenson, Rutland</b>										
12	7	Zero	19.0	—	—	—	49	Fd.	F.	—
		65 lbs 23-23-0	15.7	—	—	—	50	Fd.	F.	\$ 3.14
		87 lbs 23-23-0	15.1	—	—	—	50	Fd.	F.	\$ 4.20
		148 lbs 27-14-0	11.2	—	—	—	50	Fd.	F.	\$ 6.77
		40 lbs 11-48-0	18.9	—	—	—	50	Fd.	F.	\$12.14
		+240 lbs 33.5-0-0								

Yield differences not significant

Rainfall—May to August—8.18 inches

<b>Todd Degenstien, Battleford</b>										
12	10	Zero	14.4	92	21	1.0	63	2 Nor.	Bl.	—
		65 lbs 23-23-0	14.8	92	21	1.5	62	2 Nor.	Bl.	\$ 3.14
		87 lbs 23-23-0	12.7	92	20	1.3	62	2 Nor.	Bl.	\$ 4.20
		148 lbs 27-14-0	15.0	92	21	1.3	62	2 Nor.	Bl.	\$ 6.77
		40 lbs 11-48-0	15.5	92	21	1.5	62	2 Nor.	Bl.	\$12.14
		+240 lbs 33.5-0-0								

Yield differences not significant

Rainfall—May to August—8.49 inches

Test discarded on account of damage by flooding, pests, hail or other causes:

12 2 Donald Becker, Spinney Hill

# WHEAT POOL DISTRICT 13

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
Wayne A. Johns, Zelma										
13	2	Zero	16.3	86	21	2.0	63	2 Nor.	Bl.	—
		65 lbs 23-23-0	15.6	85	20	1.0	64	1 Nor.	—	\$ 3.14
		87 lbs 23-23-0	15.6	85	22	1.3	63	2 Nor.	Bl.	\$ 4.20
		148 lbs 27-14-0	14.9	87	21	2.0	62	2 Nor.	Bl.	\$ 6.77
		40 lbs 11-48-0	17.5	84	21	1.8	64	1 Nor.	—	\$12.14
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—5.48 inches						
Paul H. Epp, Cheviot										
13	4	Zero	12.4	85	18	2.0	61	2 Nor.	Bl.	—
		65 lbs 23-23-0	12.9	85	17	2.3	61	2 Nor.	Bl.	\$ 3.14
		87 lbs 23-23-0	13.5	85	16	1.5	61	2 Nor.	Bl.	\$ 4.20
		148 lbs 27-14-0	11.5	85	17	3.0	61	2 Nor.	Bl.	\$ 6.77
		40 lbs 11-48-0	12.6	85	17	2.5	61	2 Nor.	Bl.	\$12.14
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—5.88 inches						
Conrad Wiens, Dalmeny										
13	5	Zero	5.9	85	15	1.0	62	2 Nor.	S.	—
		65 lbs 23-23-0	7.4	82	17	1.0	60	3 Nor.	S.	\$ 3.14
		87 lbs 23-23-0	7.4	83	17	1.0	61	2 Nor.	S.	\$ 4.20
		148 lbs 27-14-0	6.8	84	17	1.0	60	3 Nor.	S.	\$ 6.77
		40 lbs 11-48-0	7.5	81	16	1.0	61	2 Nor.	S.	\$12.14
		+240 lbs 33.5-0-0								
Necessary Difference—1.05 bushels				Rainfall—May to August—3.21 inches						
Gordon Thompson, Aberdeen										
13	8	Zero	14.2	90	18	3.5	60	2 Nor.	Bl.	—
		65 lbs 23-23-0	16.7	89	22	3.3	60	2 Nor.	Bl.	\$ 3.14
		87 lbs 23-23-0	19.1	89	22	3.5	59	2 Nor.	Bl.	\$ 4.20
		148 lbs 27-14-0	22.0	89	23	3.3	59	2 Nor.	Bl.	\$ 6.77
		40 lbs 11-48-0	23.8	89	22	3.0	60	2 Nor.	Bl.	\$12.14
		+240 lbs 33.5-0-0								
Necessary Difference—3.75 bushels				Rainfall—May to August—6.17 inches						
Ronald Olchowski, Bruno										
13	9	Zero	11.1	—	28	3.0	50	Fd.	F.	—
		65 lbs 23-23-0	7.7	—	27	2.5	51	No. 6	F.	\$ 3.14
		87 lbs 23-23-0	7.5	—	32	2.3	51	No. 6	F.	\$ 4.20
		148 lbs 27-14-0	6.2	—	31	2.3	51	No. 6	F.	\$ 6.77
		40 lbs 11-48-0	8.1	—	30	2.5	51	No. 6	F.	\$12.14
		+240 lbs 33.5-0-0								
Necessary Difference—2.29 bushels				Rainfall—May to August—10.39 inches						
Test discarded on account of damage by flooding, pests, hail or other causes:										
13	7	Earl G. Cuff, Kinley								

# WHEAT POOL DISTRICT 14

James A. Gopfrich, Archerwill										
14	4	Zero	7.9	—	—	—	42	Fd.	F.	—
		65 lbs 23-23-0	9.5	—	—	—	42	Fd.	F.	\$ 3.18
		87 lbs 23-23-0	9.4	—	—	—	42	Fd.	F.	\$ 4.25
		148 lbs 27-14-0	10.2	—	—	—	41	Fd.	F.	\$ 6.86
		40 lbs 11-48-0	10.6	—	—	—	42	Fd.	F.	\$12.39
		+240 lbs 33.5-0-0								
Yield differences not significant				Rainfall—May to August—10.27 inches						
Beverly Michalkow, Porcupine Plain										
14	6	Zero	16.6	92	20	—	61	4 Nor.	F.	—
		65 lbs 23-23-0	24.3	94	24	—	61	4 Nor.	F.	\$ 3.18
		87 lbs 23-23-0	25.1	94	24	—	61	4 Nor.	F.	\$ 4.25
		148 lbs 27-14-0	25.5	94	24	—	61	4 Nor.	F.	\$ 6.86
		40 lbs 11-48-0	27.0	94	24	—	60	4 Nor.	F.	\$12.39
		+240 lbs 33.5-0-0								
Necessary Difference—4.30 bushels				Rainfall—May to August—9.25 inches						

# WHEAT POOL DISTRICT 14—Continued

Dist.	Sub-Dist.	Fertilizer Application	Yield Bus. Per Acre	Days Seeding to Ripening	Plant Height in Inches	Straw Strength	Pounds per Measured Bushel	Commercial Grades	Grading Remarks	Cost of Fertilizer
Gordon D. Phillips, Valparaiso										
14	7	Zero	15.6	92	24	1.0	61	2 Nor.	Bl.	—
		65 lbs 23-23-0	15.8	92	24	1.0	59	2 Nor.	Bl.	\$ 3.18
		87 lbs 23-23-0	19.6	92	24	1.0	59	2 Nor.	Bl.	\$ 4.25
		148 lbs 27-14-0	16.8	92	23	1.0	60	2 Nor.	Bl.	\$ 6.86
		40 lbs 11-48-0	16.8	92	24	1.0	60	2 Nor.	Bl.	\$12.39
		+ 240 lbs 33.5-0-0								
Yield differences not significant						Rainfall—May to August—8.04 inches				
Menno H. Classen, Aylsham										
14	11	Zero	15.9	93	17	1.0	61	2 Nor.	Bl.	—
		65 lbs 23-23-0	18.5	92	18	1.0	61	2 Nor.	Bl.	\$ 3.18
		87 lbs 23-23-0	19.1	92	18	1.0	61	2 Nor.	Bl.	\$ 4.25
		148 lbs 27-14-0	19.5	92	19	1.0	61	2 Nor.	Bl.	\$ 6.86
		40 lbs 11-48-0	19.7	92	19	1.0	60	2 Nor.	Bl.	\$12.39
		+ 240 lbs 33.5-0-0								
Necessary Difference—1.70 bushels						Rainfall—May to August—8.57 inches				
Test discarded on account of damage by flooding, pests, hail or other causes:										
14	9	Glenn Pilling, Kinistino								

# WHEAT POOL DISTRICT 15

Chester D. Ravndahl, Birch Hills										
15	1	Zero	6.9	92	10	1.5	60	3 Nor.	Bl.	—
		65 lbs 23-23-0	7.3	85	12	1.8	61	3 Nor.	Bl.	\$ 3.16
		87 lbs 23-23-0	7.9	85	11	2.0	60	3 Nor.	Bl.	\$ 4.23
		148 lbs 27-14-0	6.5	85	10	1.8	61	3 Nor.	Bl.	\$ 6.83
		40 lbs 11-48-0	8.5	85	12	1.5	61	3 Nor.	Bl.	\$12.28
		+ 240 lbs 33.5-0-0								
Necessary Difference—1.18 bushels						Rainfall—May to August—5.68 inches				
James Heinbigner, Hague										
15	4	Zero	11.3	99	26	2.0	62	2 Nor.	Bl.	—
		65 lbs 23-23-0	16.9	100	26	2.0	63	2 Nor.	Bl.	\$ 3.16
		87 lbs 23-23-0	16.5	99	28	2.0	63	2 Nor.	Bl.	\$ 4.23
		148 lbs 27-14-0	18.5	99	29	2.0	63	2 Nor.	Bl.	\$ 6.83
		40 lbs 11-48-0	15.8	100	25	2.0	63	2 Nor.	Bl.	\$12.28
		+ 240 lbs 33.5-0-0								
Necessary Difference—2.35 bushels						Rainfall—May to August—8.20 inches				
Dennis Bold, Marcelin										
15	5	Zero	9.2	114	26	1.8	61	No. 5	F.	—
		65 lbs 23-23-0	11.0	114	27	2.5	61	No. 5	F.	\$ 3.16
		87 lbs 23-23-0	10.5	114	26	2.3	61	No. 5	F.	\$ 4.23
		148 lbs 27-14-0	7.6	114	26	2.0	61	No. 5	F.	\$ 6.83
		40 lbs 11-48-0	15.3	114	27	3.3	62	No. 5	F.	\$12.28
		+ 240 lbs 33.5-0-0								
Test grown on summerfallow—not included in district summary						Rainfall—May to August—6.96 inches				
Test discarded on account of damage by flooding, pests, hail or other causes:										
15	11	Edward Hopkins, White Fox								

# WHEAT POOL DISTRICT 16

Terrence Townley-Smith, Lashburn										
16	6	Zero	18.4	112	—	1.0	62	2 Nor.	Bl.	—
		65 lbs 23-23-0	15.8	112	—	1.0	61	2 Nor.	Bl.	\$ 3.19
		87 lbs 23-23-0	17.6	112	—	1.0	62	2 Nor.	Bl.	\$ 4.27
		148 lbs 27-14-0	16.7	112	—	1.0	61	2 Nor.	Bl.	\$ 6.89
		40 lbs 11-48-0	15.3	112	—	1.0	62	2 Nor.	Bl.	\$12.30
		+ 240 lbs 33.5-0-0								
Yield differences not significant						Rainfall—May to August—Incomplete				
Tests discarded on account of damage by flooding, pests, hail or other causes:										
16	4	Louis Ph. Hamel, Prince								
16	9	Garry Whitt, Medstead								
16	11	Lawrence Girward, Peerless								

Table No. 27

# Individual Test Results—Oats

The results of all successful oat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

**IMPORTANT**—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviation under "Grading Remarks" see page 9.

## WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Brian Selk, Woodley</b>									
1	5	Garry	29.6	100	26	2.5	42	3 CW	T.
		Rodney	16.8	98	25	2.0	43	Ex. 1 fd.	G.
		Russell	29.6	101	24	2.3	41	Ex. 1 fd.	T.
		Glen	22.1	102	20	2.0	40	3 CW	G.
		Pendek	11.2	97	16	1.3	40	Ex. 1 fd.	G.
Necessary Difference—4.50 bushels			Rainfall—May to August—4.03 inches						

## David and Clifford James, Arcola

1	9	Garry	78.2	—	34	3.0	37	1 fd.	W.
		Rodney	72.6	—	35	2.0	40	Ex. 1 fd.	W.
		Russell	73.1	—	34	3.0	38	Ex. 1 fd.	T.
		Glen	79.7	—	35	6.0	38	Ex. 1 fd.	T.
		Pendek	65.2	—	28	8.0	34	1 fd.	T.
Necessary Difference—8.23 bushels			Rainfall—May to August—8.69 inches						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

1	1	Gerald Armstrong, Gainsborough
1	3	Edward Burnett, Glen Ewen
1	6	Charles Truman, Midale

## WHEAT POOL DISTRICT 2

### Dennis Mazenc, Radville

2	1	Garry	42.8	71	34	5.3	36	2 fd.	G.
		Rodney	43.9	72	35	3.3	37	2 fd.	G.
		Russell	51.6	74	32	4.0	38	1 fd.	G.
		Glen	55.1	67	34	4.8	35	2 fd.	G.
		Pendek	49.1	75	29	2.8	36	2 fd.	G.
Necessary Difference—8.54 bushels			Rainfall—May to August—9.62 inches						

### Frank P. Therens, Big Beaver

2	3	Garry	23.0	96	36	8.0	36	1 fd.	G.
		Rodney	18.4	94	25	6.0	39	1 fd.	G.
		Russell	24.9	92	27	4.0	37	1 fd.	G.
		Glen	28.0	90	33	5.0	36	1 fd.	G.
		Pendek	28.1	91	25	7.0	37	1 fd.	G.
Yield differences not significant			Rainfall—May to August—5.47 inches						

### Wayne G. Sagin, Dahinda

2	9	Garry	48.5	—	42	3.0	37	1 fd.	G.
		Rodney	39.2	—	37	2.8	37	1 fd.	G.
		Russell	55.4	—	38	2.5	39	Ex. 1 fd.	G.
		Glen	62.5	—	36	4.8	37	1 fd.	G.
		Pendek	45.7	—	33	2.3	37	1 fd.	G.
Necessary Difference—6.04 bushels			Rainfall—May to August—8.85 inches						



# WHEAT POOL DISTRICT 2—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
Donald Piche, Harptree									
2	11	Garry	71.5	76	24	2.5	33	2 fd.	G.
		Rodney	78.4	76	27	2.0	36	2 fd.	G.
		Russell	76.8	76	27	2.0	36	2 fd.	G.
		Glen	81.8	76	30	3.0	36	1 fd.	G.
		Pendek	73.6	76	24	1.0	33	2 fd.	G.
Yield differences not significant						Rainfall—May to August—7.27 inches			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
2	10	Brian Harrison, Hardy							

# WHEAT POOL DISTRICT 3

Glenn R. Honey, Bracken									
3	3	Garry	62.0	88	31	3.0	36	1 fd.	G.
		Rodney	41.3	88	29	3.3	30	2 fd.	G.
		Russell	63.3	88	29	2.3	35	1 fd.	G.
		Glen	67.0	88	28	4.0	33	2 fd.	G.
		Pendek	58.3	88	24	2.5	32	2 fd.	G.
Necessary Difference—3.56 bushels						Rainfall—May to August—7.49 inches			
Elwood Amundson, Robsart									
3	5	Garry	—	92	27	1.5	33	2 fd.	T.
		Rodney	—	92	26	2.0	35	1 fd.	T.
		Russell	—	92	24	1.5	36	1 fd.	T.
		Glen	—	92	26	3.0	32	2 fd.	T.
		Pendek	—	92	22	2.0	32	2 fd.	T.
Test damaged—yields not reliable						Rainfall—May to August—5.25 inches			
David Saville, Ravensrag									
3	6	Garry	43.9	—	29	7.5	36	1 fd.	T.
		Rodney	26.1	—	27	5.8	38	1 fd.	G.
		Russell	41.7	—	26	7.5	37	3 CW	T.
		Glen	38.3	—	28	7.3	35	1 fd.	T.
		Pendek	44.3	—	23	7.8	35	1 fd.	T.
Necessary Difference—2.98 bushels						Rainfall—May to August—6.91 inches			
Wayne and Ralph Oberle, Shaunavon									
3	8	Garry	35.6	96	33	1.0	36	1 fd.	G.
		Rodney	38.7	101	32	1.0	38	1 fd.	G.
		Russell	47.8	99	29	1.0	38	1 fd.	G.
		Glen	40.1	96	33	2.8	35	1 fd.	G., T.
		Pendek	47.2	94	26	1.0	36	1 fd.	G.
Necessary Difference—5.71 bushels						Rainfall—May to August—7.01 inches			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
3	7	Paul Bidaux, Eastend							

# WHEAT POOL DISTRICT 4

John W. Pearce, Maple Creek									
4	2	Garry	41.2	92	30	3.5	36	1 fd.	G.
		Rodney	27.0	90	28	4.8	35	1 fd.	G.
		Russell	33.7	91	28	4.5	40	3 CW	T.
		Glen	40.8	91	30	3.0	37	1 fd.	G.
		Pendek	26.2	90	26	4.3	35	1 fd.	G.
Necessary Difference—4.56 bushels						Rainfall—May to August—5.95 inches			
Fred Homann, Gull Lake									
4	4	Garry	35.7	81	28	3.0	36	1 fd.	G.
		Rodney	33.7	81	27	3.0	39	1 fd.	G.
		Russell	42.3	81	26	3.0	39	1 fd.	G.
		Glen	39.8	81	28	3.0	35	1 fd.	G.
		Pendek	40.9	81	23	3.0	36	1 fd.	G.
Necessary Difference—5.63 bushels						Rainfall—May to August—7.54 inches			

# WHEAT POOL DISTRICT 4—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Stuart Robertson, Success</b>									
4	5	Garry	15.5	71	19	1.0	32	2 fd.	T.
		Rodney	16.0	71	17	2.0	33	2 fd.	T.
		Russell	19.4	71	19	2.0	32	2 fd.	T.
		Glen	17.6	71	22	8.0	27	2 fd.	T.
		Pendek	18.9	71	16	1.0	30	2 fd.	T.
Necessary Difference—2.22 bushels			Rainfall—May to August—6.75 inches						

## Noel Hale, Lemsford

4	9	Garry	36.8	88	30	7.0	37	Ex. 1 fd.	G.
		Rodney	30.6	90	28	7.3	40	Ex. 1 fd.	G.
		Russell	37.5	88	27	7.3	39	Ex. 1 fd.	G.
		Glen	39.1	86	28	7.0	36	1 fd.	G.
		Pendek	23.4	86	23	6.3	36	1 fd.	G.
Necessary Difference—6.04 bushels			Rainfall—May to August—Incomplete						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

4 6 Brian Hoogeveen, Shackleton

# WHEAT POOL DISTRICT 5

## Keith Stolhandske, Swift Current

5	4	Garry	28.6	96	30	3.0	33	2 fd.	G.
		Rodney	21.4	94	28	2.0	35	2 fd.	G.
		Russell	24.9	94	20	2.0	33	2 fd.	G.
		Glen	29.0	94	30	1.5	33	2 fd.	G.
		Pendek	23.3	96	24	1.8	32	2 fd.	G.
Necessary Difference—3.35 bushels			Rainfall—May to August—6.04 inches						

## Lloyd G. Meadows, Mortlach

5	7	Garry	34.5	84	27	5.0	37	1 fd.	G.
		Rodney	34.2	84	28	5.0	39	1 fd.	G.
		Russell	37.5	84	26	5.0	40	3 CW	T.
		Glen	38.8	84	27	5.0	37	1 fd.	T.
		Pendek	37.5	84	24	5.0	36	1 fd.	T.
Necessary Difference—3.45 bushels			Rainfall—May to August—5.15 inches						

## Evelyn Nelson, Aquadell

5	9	Garry	27.5	115	30	1.0	32	2 fd.	G.
		Rodney	26.5	115	30	1.0	35	2 fd.	G.
		Russell	28.9	115	30	1.0	36	1 fd.	G.
		Glen	32.0	115	30	1.0	31	2 fd.	G., T.
		Pendek	25.4	115	30	1.0	32	2 fd.	G., T.
Necessary Difference—3.74 bushels			Rainfall—May to August—7.46 inches						

## Brian H. Strawford, Vanguard

5	2	Garry	50.0	—	32	2.0	38	1 fd.	T.
		Rodney	41.5	—	26	2.5	42	1 fd.	G.
		Russell	44.6	—	26	2.5	41	1 fd.	T.
		Glen	45.5	—	26	2.3	38	1 fd.	T.
		Pendek	40.7	—	22	2.3	39	1 fd.	T.
Yield differences not significant			Rainfall—May to August—3.51 inches						

# WHEAT POOL DISTRICT 6

## Roger W. Weslowski, Davin

6	2	Garry	75.1	88	—	1.0	40	1 fd.	W.
		Rodney	77.5	88	—	1.0	40	1 fd.	W.
		Russell	68.4	88	—	1.0	39	1 fd.	W.
		Glen	70.4	88	—	1.0	38	1 fd.	W.
		Pendek	72.6	88	—	1.0	37	1 fd.	W.
Yield differences not significant			Rainfall—May to August—7.43 inches						

# WHEAT POOL DISTRICT 6—Continued

Dist.	Sub-Dist.	Varieties	Yield per acre	Bus. ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Darcy Livingston, Sinaluta</b>									
6	8	Garry	82.0	87	40	2.0	39	3 CW	T.
		Rodney	81.1	87	38	2.0	40	3 CW	T.
		Russell	81.1	87	35	2.0	40	3 CW	T.
		Glen	81.7	87	36	2.0	38	3 CW	T.
		Pendek	74.1	86	29	3.0	37	Ex. 1 fd.	T.
Necessary Difference—8.86 bushels			Rainfall—May to August—11.68 inches						

<b>Stanley Sinclair, Ft. Qu'Appelle</b>									
6	9	Garry	38.8	75	15	8.0	38	3 CW	T.
		Rodney	35.3	75	17	9.0	41	3 CW	T.
		Russell	42.5	75	16	9.0	41	3 CW	T.
		Glen	44.3	75	15	6.0	38	3 CW	T.
		Pendek	34.2	75	13	7.0	38	3 CW	T.
Yield differences not significant			Rainfall—May to August—6.67 inches						

<b>Sharon Martin, Disley</b>									
6	10	Garry	66.9	87	36	1.0	39	3 CW	T.
		Rodney	71.1	86	36	1.0	42	2 CW	T.
		Russell	66.5	85	32	1.0	41	2 CW	T.
		Glen	72.3	83	34	1.0	39	3 CW	T.
		Pendek	69.5	83	28	3.0	37	3 CW	T.
Yield differences not significant			Rainfall—May to August—5.47 inches						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

6 6 David Patterson, Hearne

# WHEAT POOL DISTRICT 7

## William Ketcheson, Doonside

7	1	Garry	—	90	29	1.0	39	1 fd.	W.
		Rodney	—	89	27	1.0	39	1 fd.	W.
		Russell	—	90	28	1.0	40	1 fd.	W.
		Glen	—	89	30	1.0	38	1 fd.	W.
		Pendek	—	91	24	1.0	38	1 fd.	W.
Test damaged by gophers—yields not reliable			Rainfall—May to August—9.66 inches						

## Velma Pearce, Moosomin

7	2	Garry	83.1	89	37	2.5	37	1 fd.	W.
		Rodney	88.9	89	38	2.5	40	1 fd.	W.
		Russell	81.6	89	36	2.5	36	1 fd.	W.
		Glen	83.0	89	38	2.3	36	1 fd.	W.
		Pendek	63.3	89	27	1.0	35	1 fd.	W.
Necessary Difference—14.84 bushels			Rainfall—May to August—12.07 inches						

## Randy Dayman, Corning

7	5	Garry	59.4	71	35	—	38	1 fd.	G.
		Rodney	55.9	72	33	—	40	1 fd.	G.
		Russell	55.0	69	32	—	39	1 fd.	G.
		Glen	58.2	71	34	—	38	1 fd.	G.
		Pendek	58.5	71	27	—	38	1 fd.	G.
Yield differences not significant			Rainfall—May to August—9.00 inches						

## Garry Pangracs, Esterhazy

7	10	Garry	63.4	—	—	—	43	1 CW	
		Rodney	58.2	—	—	—	45	2 CW	G.
		Russell	65.3	—	—	—	43	2 CW	G.
		Glen	69.0	—	—	—	42	2 CW	G.
		Pendek	63.9	—	—	—	41	2 CW	T.
Yield differences not significant			Rainfall—May to August—13.65 inches						

## Kenneth F. Heinrich, Neudorf

7	11	Garry	—	—	39	—	34	2 fd.	G.
		Rodney	—	—	36	—	39	1 fd.	G.
		Russell	—	—	37	—	38	1 fd.	G.
		Glen	—	—	37	—	37	1 fd.	G.
		Pendek	—	—	31	—	35	1 fd.	T.
Test damaged by birds—yields not reliable			Rainfall—May to August—12.27 inches						

## WHEAT POOL DISTRICT 8

Dist.	Sub-Dist.	Varieties	Yield per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Garry Sklaruk, Donwell</b>									
8	5	Garry	85.4	—	—	—	37	1 fd.	W.
		Rodney	89.7	—	—	—	38	1 fd.	W.
		Russell	80.1	—	—	—	37	1 fd.	W.
		Glen	88.7	—	—	—	35	1 fd.	W.
		Pendek	83.2	—	—	—	36	1 fd.	W.
Yield differences not significant						Rainfall—May to August—Incomplete			

<b>Jerry Chermcora, Hyas</b>									
8	9	Garry	—	—	—	—	39	3 CW	W.
		Rodney	—	—	—	—	40	3 CW	W.
		Russell	—	—	—	—	39	3 CW	W.
		Glen	—	—	—	—	39	3 CW	W.
		Pendek	—	—	—	—	38	1 fd.	W.
Part of test damaged—yields not reliable						Rainfall—May to August—10.70 inches			

<b>David Krochak, Arran</b>									
8	10	Garry	74.6	92	35	4.8	39	1 fd.	G.
		Rodney	61.4	92	36	4.5	40	1 fd.	G.
		Russell	57.3	97	35	5.3	39	1 fd.	G.
		Glen	75.5	92	36	6.8	37	1 fd.	G.
		Pendek	78.1	94	36	3.8	36	1 fd.	G.
Yield differences not significant						Rainfall—May to August—13.94 inches			

<b>Marilyn Smith, Hudson Bay</b>									
8	11	Garry	37.0	110	—	1.8	32	2 fd.	W., T.
		Rodney	31.3	108	—	1.8	30	2 fd.	W., T.
		Russell	34.8	109	—	5.0	35	2 fd.	W., T.
		Glen	49.5	107	—	3.5	35	2 fd.	W., T.
		Pendek	48.6	106	—	5.3	36	2 fd.	W., T.
Necessary Difference—6.84 bushels						Rainfall—May to August—6.80 inches			

## WHEAT POOL DISTRICT 9

<b>Lawrence W. Daw, Jasmin</b>									
9	1	Garry	70.7	85	33	1.3	40	1 fd.	W., F.
		Rodney	73.1	84	32	1.3	40	1 fd.	W., F.
		Russell	70.1	84	33	1.3	39	1 fd.	W.
		Glen	79.0	85	31	1.3	38	1 fd.	W.
		Pendek	78.0	82	25	1.0	39	1 fd.	W.
Yield differences not significant						Rainfall—May to August—9.95 inches			

<b>Gordon Schmidt, Duval</b>									
9	5	Garry	40.2	112	17	1.0	37	1 fd.	T.
		Rodney	39.8	113	16	1.0	36	1 fd.	T.
		Russell	41.3	110	17	1.0	39	1 fd.	G.
		Glen	39.2	109	17	1.0	36	1 fd.	T.
		Pendek	39.0	114	11	1.0	37	1 fd.	G.
Yield differences not significant						Rainfall—May to August—9.34 inches			

<b>Harry J. Smith, Govan</b>									
9	6	Garry	29.7	87	21	2.0	41	3 CW	T.
		Rodney	25.6	87	19	2.0	42	3 CW	G.
		Russell	30.9	87	18	2.0	40	1 fd.	G.
		Glen	31.0	87	19	2.0	38	1 fd.	T., G.
		Pendek	27.6	87	15	5.0	38	1 fd.	G.
Yield differences not significant						Rainfall—May to August—6.57 inches			

<b>Glen McGregor, Wynyard</b>									
9	8	Garry	48.4	95	30	1.0	38	1 fd.	G.
		Rodney	41.5	95	28	1.0	37	1 fd.	G.
		Russell	41.9	95	24	1.0	38	2 fd.	G.
		Glen	42.8	95	27	1.0	37	2 fd.	G.
		Pendek	41.5	95	24	1.0	35	2 fd.	G.
Yield differences not significant						Rainfall—May to August—9.98 inches			

# WHEAT POOL DISTRICT 9—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Allan E. Whalen, Mozart</b>									
9	10	Garry	37.9	—	—	—	39	2 fd.	
		Rodney	43.6	—	—	—	40	2 fd.	
		Russell	35.5	—	—	—	39	2 fd.	
		Glen	45.2	—	—	—	36	2 fd.	
		Pendek	38.5	—	—	—	38	2 fd.	
Yield differences not significant							Rainfall—May to August 9.03 inches		

# WHEAT POOL DISTRICT 10

<b>Barry R. Fields, Penzance</b>									
10	1	Garry	44.7	—	—	—	36	1 fd.	G.
		Rodney	48.9	—	—	—	39	Ex. 1 fd	G.
		Russell	49.8	—	—	—	36	1 fd.	G.
		Glen	49.1	—	—	—	35	1 fd.	T.
		Pendek	52.4	—	—	—	35	1 fd.	T.
Yield differences not significant							Rainfall—May to August—Incomplete		

# Robert Trew, Beechy

10	3	Garry	29.4	—	28	—	34	1 fd.	G., T.
		Rodney	28.2	—	28	—	34	1 fd.	G.
		Russell	31.6	—	26	—	35	1 fd.	G.
		Glen	33.2	—	27	—	35	1 fd.	G.
		Pendek	31.9	—	24	—	34	1 fd.	G.
Yield differences not significant							Rainfall—May to August—3.09 inches		

# Kenneth Bell, Betalock

10	5	Garry	—	—	—	—	29	2 fd.	T.
		Rodney	—	—	—	—	29	2 fd.	T.
		Russell	—	—	—	—	28	2 fd.	T.
		Glen	—	—	—	—	26	3 fd.	T.
		Pendek	—	—	—	—	28	2 fd.	T.
Test damaged by livestock—yields not reliable							Rainfall—May to August—8.00 inches		

# Gerald Beaton, Liberty

10	8	Garry	31.2	92	26	6.0	34	1 fd.	T.
		Rodney	34.0	92	26	6.5	37	1 fd.	G.
		Russell	33.6	92	27	5.8	37	1 fd.	T.
		Glen	30.0	92	26	5.8	35	1 fd.	T.
		Pendek	29.7	92	22	4.0	36	1 fd.	T.
Necessary Difference—3.32 bushels							Rainfall—May to August—4.88 inches		

# Robert R. Girvan, Swanson

10	10	Garry	19.3	81	24	2.3	28	2 fd.	T.
		Rodney	22.6	83	25	1.0	33	2 fd.	T.
		Russell	24.9	82	25	2.3	36	1 fd.	T.
		Glen	24.9	82	26	2.3	32	2 fd.	T.
		Pendek	27.4	78	20	2.0	31	2 fd.	T.
Yield differences not significant							Rainfall—May to August—5.88 inches		

# WHEAT POOL DISTRICT 11

# Lloyd Giles, Wartime

11	2	Garry	—	—	14	—	35	2 fd.	T.
		Rodney	—	—	14	—	36	2 fd.	T.
		Russell	—	—	14	—	36	2 fd.	T.
		Glen	—	—	14	—	33	2 fd.	T.
		Pendek	—	—	14	—	34	2 fd.	T.
Test damaged by shattering—yields not reliable							Rainfall—May to August—5.67 inches		

# Ray Mutlow, McGee

11	8	Garry	17.1	—	—	—	35	1 fd.	T.
		Rodney	16.9	—	—	—	38	1 fd.	G.
		Russell	19.2	—	—	—	38	1 fd.	T.
		Glen	18.7	—	—	—	37	1 fd.	T.
		Pendek	11.1	—	—	—	34	2 fd.	T.
Yield differences not significant							Rainfall—May to August—Incomplete		



# WHEAT POOL DISTRICT 11—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Clarence Bur, Smiley</b>									
11	10	Garry	56.7	80	30	1.0	38	1 fd.	W.
		Rodney	57.8	81	28	1.0	39	1 fd.	W.
		Russell	55.5	80	27	1.0	39	1 fd.	W.
		Glen	58.2	79	29	1.0	37	1 fd.	W.
		Pendek	59.8	79	23	1.0	38	1 fd.	W.
Yield differences not significant			Rainfall—May to August—6.57 inches						

# WHEAT POOL DISTRICT 12

## Richard G. Domes, Biggar

12	2	Garry	—	—	—	—	36	1 fd.	T.
		Rodney	—	—	—	—	36	1 fd.	G.
		Russell	—	—	—	—	34	2 fd.	T.
		Glen	—	—	—	—	34	2 fd.	T.
		Pendek	—	—	—	—	34	2 fd.	T.
Unsatisfactory germination—yields not reliable			Rainfall—May to August—6.82 inches						

## Lawrence Haas, Landis

12	3	Garry	36.1	93	23	1.0	35	1 fd.	T.
		Rodney	32.0	93	20	1.5	37	3 CWV	T.
		Russell	35.4	93	20	1.3	35	1 fd.	T.
		Glen	35.0	87	23	1.0	33	2 fd.	T.
		Pendek	31.6	90	26	1.3	34	1 fd.	T.
Yield differences not significant			Rainfall—May to August—9.21 inches						

## Donald Cey, Scott

12	5	Garry	26.5	—	25	3.0	37	Ex. 1 fd.	G.
		Rodney	26.0	—	22	2.0	39	Ex. 1 fd.	G.
		Russell	27.1	—	24	3.0	36	1 fd.	G.
		Glen	27.3	—	23	2.0	33	2 fd.	G.
		Pendek	28.2	—	21	2.0	35	1 fd.	G.
Yield differences not significant			Rainfall—May to August—4.19 inches						

## Jack T. Daley, Primate

12	6	Garry	25.9	—	28	1.0	23	3 fd.	T., G.
		Rodney	27.4	—	26	1.0	28	2 fd.	T., G.
		Russell	17.3	—	25	1.0	26	3 fd.	T., G.
		Glen	24.4	—	25	1.0	26	3 fd.	T., G.
		Pendek	18.1	—	25	1.0	24	3 fd.	T., G.
Yield differences not significant			Rainfall—May to August—7.70 inches						

## Morris H. Robinson, Lone Rock

12	8	Garry	40.7	96	25	3.3	41	2 fd.	G.
		Rodney	35.7	96	24	3.3	41	2 fd.	G.
		Russell	39.0	96	23	2.8	41	1 fd.	G.
		Glen	41.8	96	26	3.0	38	2 fd.	G.
		Pendek	40.4	96	22	2.8	38	2 fd.	G.
Yield differences not significant			Rainfall—May to August—8.45 inches						

# WHEAT POOL DISTRICT 13

## Robert Earis, Bay Trail

13	1	Garry	13.5	—	22	1.8	36	1 fd.	G.
		Rodney	16.9	—	20	1.0	37	1 fd.	G.
		Russell	13.6	—	18	1.5	36	1 fd.	G.
		Glen	14.3	—	21	2.3	33	2 fd.	G.
		Pendek	10.8	—	15	1.8	37	1 fd.	G.
Yield differences not significant			Rainfall—May to August—6.95 inches						

## Verner Unrau, Dundurn

13	3	Garry	34.5	72	30	1.0	39	1 fd.	G.
		Rodney	30.3	72	29	1.0	39	1 fd.	G.
		Russell	29.7	74	25	1.0	39	1 fd.	G.
		Glen	37.5	70	28	2.0	37	1 fd.	G.
		Pendek	23.9	68	20	1.0	38	1 fd.	G.
Yield differences not significant			Rainfall—May to August—7.46 inches						

# WHEAT POOL DISTRICT 13—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>M. Garry Jabush, Sutherland</b>									
13	5	Garry	18.2	67	18	2.0	35	1 fd.	G.
		Rodney	14.8	69	18	2.0	35	1 fd.	G.
		Russell	13.5	65	18	1.0	36	1 fd.	G.
		Glen	17.9	70	18	2.0	37	1 fd.	G.
		Pendek	10.8	67	20	1.0	34	1 fd.	G.
Yield differences not significant						Rainfall—May to August—4.94 inches			

<b>Wayne D. Bonderoff, Arelee</b>									
13	7	Garry	23.9	80	26	1.3	37	1 fd.	W., F.
		Rodney	21.3	79	26	1.5	38	1 fd.	W., F.
		Russell	24.5	80	24	1.0	40	1 fd.	W., F.
		Glen	27.7	80	28	1.0	38	Ex. 1 fd.	G.
		Pendek	31.7	78	21	1.0	39	3 CW	T.
Necessary Difference—4.71 bushels						Rainfall—May to August—6.78 inches			

<b>Ronald Ford, Humboldt</b>									
13	10	Garry	42.1	—	29	3.0	35	1 fd.	W.
		Rodney	43.7	—	27	2.3	37	1 fd.	G.
		Russell	38.4	—	26	2.5	36	1 fd.	G.
		Glen	44.2	—	27	4.5	34	1 fd.	G.
		Pendek	45.8	—	24	2.0	34	1 fd.	G.
Yield differences not significant						Rainfall—May to August—8.27 inches			

# WHEAT POOL DISTRICT 14

<b>Conrad Eliason, Kuroki</b>									
14	1	Garry	93.9	—	43	2.5	42	3 CW	T.
		Rodney	93.2	—	42	2.3	40	3 CW	W.
		Russell	100.4	—	41	4.0	39	3 CW	W.
		Glen	102.9	—	42	4.3	41	3 CW	W.
		Pendek	120.3	—	35	3.3	39	3 CW	W.
Necessary Difference—8.78 bushels						Rainfall—May to August—11.13 inches			

<b>Wayne A. Manchur, Watson</b>									
14	2	Garry	—	—	32	1.0	40	1 fd.	G.
		Rodney	—	—	31	1.0	41	1 fd.	G.
		Russell	—	—	33	2.0	40	1 fd.	G.
		Glen	—	—	31	1.0	38	1 fd.	G.
		Pendek	—	—	28	9.0	37	1 fd.	G.
Part of test damaged by cattle—yields not included in district summary						Rainfall—May to August—7.96 inches			

<b>Larry J. Jackson, Eldersley</b>									
14	7	Garry	60.1	89	29	1.0	36	2 fd.	G.
		Rodney	61.7	91	30	1.0	37	2 fd.	G.
		Russell	46.5	90	28	1.0	34	2 fd.	G.
		Glen	55.9	93	27	1.0	35	2 fd.	G.
		Pendek	50.5	92	26	1.0	36	2 fd.	G.
Necessary Difference—10.47 bushels						Rainfall—May to August 8.11 inches			

<b>Ken L. Anklovitch, Carrot River</b>									
14	11	Garry	—	90	—	1.0	35	2 fd.	G.
		Rodney	—	98	—	1.0	41	1 fd.	G.
		Russell	—	95	—	1.8	38	2 fd.	G.
		Glen	—	95	—	1.8	38	2 fd.	G.
		Pendek	—	93	—	1.0	35	2 fd.	G.
Part of test damaged by cattle—yields not reliable						Rainfall—May to August—8.39 inches			

# WHEAT POOL DISTRICT 15

<b>Arnold Brewster, Fenton</b>									
15	1	Garry	59.5	—	—	—	36	1 fd.	W.
		Rodney	57.7	—	—	—	37	1 fd.	W.
		Russell	55.6	—	—	—	36	1 fd.	W.
		Glen	65.8	—	—	—	35	1 fd.	W.
		Pendek	62.3	—	—	—	36	1 fd.	W.
Yield differences not significant						Rainfall—May to August—Incomplete			

# WHEAT POOL DISTRICT 15—Continued

Dist.	Sub-Dist.	Varieties	Yield Bus. per acre	Days Seed- ing to ripening	Plant height in inches	Straw strength	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Myrna McCulloch, Blue Heron</b>									
15	6	Garry	52.7	98	20	1.3	40	1 fd.	W.
		Rodney	53.9	99	23	1.0	41	1 fd.	W.
		Russell	50.8	99	22	1.5	40	1 fd.	W.
		Glen	49.3	99	21	1.0	37	2 fd.	G., W.
		Pendek	45.4	97	16	1.0	38	1 fd.	W.
Yield differences not significant						Rainfall—May to August—6.53 inches			

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

15	3	John Folmer, Steep Creek
15	8	Harold Pugh, Holbein

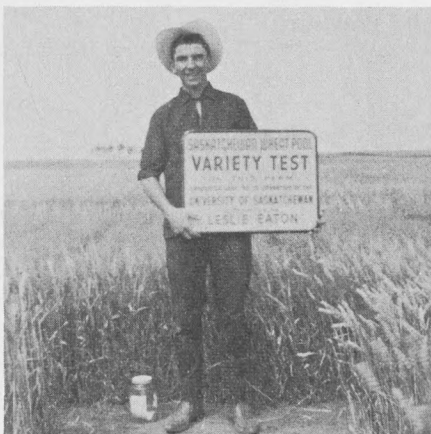
# WHEAT POOL DISTRICT 16

## Norbert Bedier, Hafford

16	2	Garry	27.5	—	—	—	37	1 fd.	T.
		Rodney	26.5	—	—	—	39	1 fd.	G.
		Russell	30.3	—	—	—	37	1 fd.	T.
		Glen	31.5	—	—	—	35	1 fd.	T.
		Pendek	26.8	—	—	—	36	1 fd.	T.
Yield differences not significant						Rainfall—May to August—Incomplete			

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

16	4	Bob Stuart, Edam
16	9	Frank Hundt, Medstead



Leslie Eaton of Leroy stands in the border surrounding his flax test located in a wheat field.



This photo shows the border row of barley surrounding the flax test supervised by Ray Cote of Delmas.

Table No. 28

# Individual Test Results-Flax

The results of all successful flax tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

**IMPORTANT**—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviation under "Grading Remarks" see page 9.

## WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
<b>John Gervais, Alida</b>								
1	2	Redwood	7.7	113	25	52	4 CW	F.
		Norland	11.4	113	25	55	3 CW	F.
		Bolley	3.8	113	20	55	2 CW	F.
		S-5436	6.2	113	24	54	2 CW	F.
		Summit	6.5	113	20	55	2 CW	F.
Necessary	Difference—2.52	bushels			Rainfall—May to August—9.09	inches		

## Jackie A. Lindsay, Kisbey

1	4	Redwood	19.4	116	24	53	3 CW	F.
		Norland	17.9	116	24	54	2 CW	F.
		Bolley	13.4	109	23	56	2 CW	F.
		S-5436	17.9	112	25	55	3 CW	G.
		Summit	19.3	116	23	56	3 CW	G. F.
Necessary	Difference—1.79	bushels			Rainfall—May to August—10.25	inches		

## Thomas H. Clausen, Beaubier

1	7	Redwood	12.7	92	21	55	1 CW	—
		Norland	12.5	92	22	57	1 CW	—
		Bolley	10.1	92	22	56	1 CW	—
		S-5436	12.5	92	21	57	1 CW	—
		Summit	11.8	92	21	57	1 CW	—
Necessary	Difference—1.19	bushels			Rainfall—May to August—9.52	inches		

## Delmar P. Gaab, Weyburn

1	8	Redwood	15.2	94	21	55	1 CW	—
		Norland	13.0	95	19	56	1 CW	—
		Bolley	11.8	93	23	56	1 CW	—
		S-5436	12.9	95	20	57	1 CW	—
		Summit	15.4	95	18	55	1 CW	—
Yield differences not significant					Rainfall—May to August—9.42			

## Billy Crossman, Stoughton

1	9	Redwood	12.9	90	25	52	4 CW	F.
		Norland	11.3	92	28	54	3 CW	F.
		Bolley	11.5	86	24	55	2 CW	F.
		S-5436	11.3	90	23	54	3 CW	F.
		Summit	14.0	86	23	55	2 CW	F.
Necessary	Difference—1.66	bushels			Rainfall—May to August—10.05	inches		

## WHEAT POOL DISTRICT 2

### Colin Keller, Rockglen

2	5	Redwood	8.3	91	23	51	1 CW	—
		Norland	8.4	91	23	53	1 CW	—
		Bolley	10.1	91	22	55	1 CW	—
		S-5436	9.4	91	23	55	1 CW	—
		Summit	11.0	91	21	56	1 CW	—
Necessary	Difference—1.56	bushels			Rainfall—May to August—9.47	inches		

# WHEAT POOL DISTRICT 2—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Bryan Auser, Limerick</b>								
2	7	Redwood	10.5	100	23	55	1 CW	—
		Norland	10.4	99	23	56	1 CW	—
		Bolley	8.6	102	23	55	1 CW	—
		S-5436	11.0	101	22	56	1 CW	—
		Summit	11.1	105	22	56	1 CW	—
Necessary	Difference—1.49	bushels			Rainfall—May to August—5.92	inches		
<b>Brian J. Karst, Assiniboia</b>								
2	8	Redwood	9.7	89	25	52	3 CW	G.
		Norland	7.7	93	21	54	1 CW	—
		Bolley	9.3	87	23	54	1 CW	—
		S-5436	7.6	92	24	54	1 CW	—
		Summit	11.5	85	23	55	1 CW	—
Necessary	Difference—1.85	bushels			Rainfall—May to August—4.22	inches		
<b>Brian Nast, Trossachs</b>								
2	10	Redwood	—	—	18	54	1 CW	—
		Norland	—	—	16	54	1 CW	—
		Bolley	—	—	20	54	1 CW	—
		S-5436	—	—	17	53	1 CW	—
		Summit	—	—	18	55	1 CW	—
Test damaged	by hail—yields not reliable				Rainfall—May to August—6.69	inches		

# WHEAT POOL DISTRICT 3

## Richard Barker, Mankota

3	1	Redwood	14.3	114	18	56	1 CW	—
		Norland	13.9	113	18	56	1 CW	—
		Bolley	10.8	112	18	56	1 CW	—
		S-5436	14.0	114	18	57	1 CW	—
		Summit	15.2	112	18	56	1 CW	—
Necessary	Difference—1.87	bushels			Rainfall—May to August—10.00	inches		

## Raymond Thoring, Frontier

3	4	Redwood	9.7	—	15	55	1 CW	—
		Norland	7.6	—	15	55	1 CW	—
		Bolley	7.7	—	16	54	1 CW	—
		S-5436	7.9	—	15	56	1 CW	—
		Summit	9.5	—	15	55	1 CW	—
Necessary	Difference—1.64	bushels			Rainfall—May to August—7.10	inches		

## Colin Pierce, Consul

3	5	Redwood	5.6	93	19	54	1 CW	—
		Norland	5.9	94	22	54	1 CW	—
		Bolley	7.1	92	23	54	1 CW	—
		S-5436	6.9	93	20	55	1 CW	—
		Summit	7.0	91	21	55	1 CW	—
Yield differences not significant					Rainfall—May to August—5.85	inches		

## Donald J. Wernicke, Cadillac

3	9	Redwood	10.5	91	22	57	1 CW	—
		Norland	9.6	99	23	56	1 CW	—
		Bolley	8.5	91	22	57	1 CW	—
		S-5436	9.4	100	22	57	1 CW	—
		Summit	9.0	94	19	57	1 CW	—
Yield differences not significant					Rainfall—May to August—6.64	inches		

## Laverne Moen, Hazenmore

3	10	Redwood	10.3	105	23	55	1 CW	—
		Norland	9.0	106	23	57	1 CW	—
		Bolley	7.7	105	21	56	1 CW	—
		S-5436	10.9	105	23	57	1 CW	—
		Summit	9.3	105	20	56	1 CW	—
Necessary	Difference—1.78	bushels			Rainfall—May to August—6.81	inches		

Test discarded on account of damage by flooding, pests, hail, drought or other causes:  
3 2 Maurice Cote, Val Marie



## WHEAT POOL DISTRICT 4

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
Garth O. Hecker, Piapot								
4	1	Redwood	—	88	19	55	1 CW	—
		Norland	—	90	19	56	1 CW	—
		Bolley	—	88	17	55	1 CW	—
		S-5436	—	88	18	56	1 CW	—
		Summit	—	89	15	56	1 CW	—
Unsatisfactory	germination—yields		not	reliable	Rainfall—May to August—5.00 inches			
Lyle Ehrman, Leader								
4	8	Redwood	3.9	—	20	56	1 CW	—
		Norland	2.3	—	22	56	1 CW	—
		Bolley	4.6	—	22	57	1 CW	—
		S-5436	2.9	—	22	56	1 CW	—
		Summit	5.8	—	20	56	1 CW	—
Necessary	Difference—.90		bushels		Rainfall—May to August—5.74 inches			
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
4	5	Wayne and Brian Stade, Cabri						
4	7	Marlene Peters, Linacre						

## WHEAT POOL DISTRICT 5

Dwayne D. Barkman, Flowing Well								
5	5	Redwood	4.0	—	—	54	1 CW	—
		Norland	3.3	—	—	54	1 CW	—
		Bolley	4.3	—	—	55	1 CW	—
		S-5436	5.0	—	—	55	1 CW	—
		Summit	5.7	—	—	55	1 CW	—
Necessary Difference—1.22 bushels			Rainfall—May to August—6.51 inches					
Edith Anderson, Coderre								
5	6	Redwood	10.0	95	16	54	1 CW	—
		Norland	9.4	95	15	55	1 CW	—
		Bolley	6.8	92	17	54	1 CW	—
		S-5436	7.8	96	17	56	1 CW	—
		Summit	8.0	90	16	56	1 CW	—
Necessary Difference—1.53 bushels			Rainfall—May to August—6.25 inches					
Ross G. Hicks, Marquis								
5	8	Redwood	10.3	93	20	55	1 CW	—
		Norland	13.3	88	24	56	1 CW	—
		Bolley	11.3	88	20	55	1 CW	—
		S-5436	13.0	100	24	56	1 CW	—
		Summit	12.2	90	20	55	1 CW	—
Necessary Difference—1.88 bushels			Rainfall—May to August—5.71 inches					
Dale Heiydt, Ernfold								
5	10	Redwood	12.1	—	—	54	1 CW	—
		Norland	13.5	—	—	56	1 CW	—
		Bolley	9.5	—	—	55	1 CW	—
		S-5436	11.6	—	—	56	1 CW	—
		Summit	12.4	—	—	56	1 CW	—
Necessary Difference—1.13 bushels			Rainfall—May to August—7.92 inches					

## WHEAT POOL DISTRICT 6

<b>Warren L. Johnstone, Yellow Grass</b>								
6	1	Redwood	15.4	109	24	54	3 CW	F.
		Norland	14.4	106	24	56	2 CW	F.
		Bolley	15.1	106	23	56	1 CW	—
		S-5436	17.4	108	23	56	2 CW	F.
		Summit	18.2	107	21	56	2 CW	F.
Necessary Difference—			1.36 bushels		Rainfall—May to August—10.46 inches			

# WHEAT POOL DISTRICT 6—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
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## Dennis and Donald Miller, Avonlea

6	4	Redwood	7.0	—	21	55	1 CW	—
		Norland	5.1	—	22	56	1 CW	—
		Bolley	6.9	—	21	55	1 CW	—
		S-5436	6.4	—	24	56	1 CW	—
		Summit	7.1	—	23	55	1 CW	—

Necessary Difference—.80 bushels

Rainfall—May to August—7.67 inches

## Grant S. Babich, Moose Jaw

6	5	Redwood	12.9	98	18	56	1 CW	—
		Norland	13.8	95	18	56	1 CW	—
		Bolley	10.2	94	19	56	1 CW	—
		S-5436	12.8	99	19	56	1 CW	—
		Summit	11.9	98	18	55	1 CW	—

Necessary Difference—.83 bushels

Rainfall—May to August—6.01 inches

## Rodney Brady, Regina

6	7	Redwood	15.7	99	30	56	3 CW	F.
		Norland	15.5	99	29	57	1 CW	—
		Bolley	14.1	94	27	56	1 CW	—
		S-5436	12.6	99	30	57	1 CW	—
		Summit	17.2	94	27	57	1 CW	—

Necessary Difference—.95 bushels

Rainfall—May to August—8.99 inches

## Douglas Gray, Indian Head

6	8	Redwood	—	101	—	54	1 CW	—
		Norland	—	101	—	56	1 CW	—
		Bolley	—	101	—	56	1 CW	—
		S-5436	—	101	—	56	1 CW	—
		Summit	—	101	—	56	1 CW	—

Test Damaged by Animals—yields not reliable Rainfall—May to August—6.60 inches

# WHEAT POOL DISTRICT 7

## Jackie C. Daku, Kipling

7	4	Redwood	13.5	96	25	57	2 CW	G.
		Norland	16.1	95	28	57	1 CW	—
		Bolley	6.6	92	22	57	1 CW	—
		S-5436	11.8	93	23	57	2 CW	G.
		Summit	10.5	93	21	56	1 CW	—

Necessary Difference—3.60 bushels

Rainfall—May to August—11.09 inches

## Bill E. Hassler, Windthorst

7	6	Redwood	—	101	14	47	4 CW	F.
		Norland	—	106	14	48	4 CW	F.
		Bolley	—	101	14	47	4 CW	F.
		S-5436	—	101	14	49	4 CW	F.
		Summit	—	101	14	49	4 CW	F.

Test damaged by grasshoppers—yields not reliable

Rainfall—May to August—9.90 inches

## Anthony Petracek, Gerald

7	9	Redwood	17.4	104	24	57	1 CW	—
		Norland	15.1	102	30	58	1 CW	—
		Bolley	8.9	99	26	57	1 CW	—
		S-5436	16.2	100	27	57	1 CW	—
		Summit	9.2	103	24	57	1 CW	—

Necessary Difference—4.40 bushels

Rainfall—May to August—10.24 inches

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

7	3	Roland Hamilton, Wawota
7	7	Robert LeCain, Grenfell

## WHEAT POOL DISTRICT 8

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
Larry Almasi, Melville								
8	3	Redwood	19.0	—	25	56	1 CW	—
		Norland	18.9	—	24	57	1 CW	—
		Bolley	12.5	—	22	57	1 CW	—
		S-5436	19.4	—	26	57	2 CW	F.
		Summit	14.5	—	20	56	1 CW	—
Necessary	Difference—2.49	bushels	Rainfall—May to August—7.91 inches					
Martin Wlock, Willowbrook								
8	4	Redwood	24.6	93	27	55	1 CW	—
		Norland	27.5	99	29	56	1 CW	—
		Bolley	13.5	90	23	56	1 CW	—
		S-5436	26.7	93	27	57	1 CW	—
		Summit	19.2	90	21	56	1 CW	—
Necessary	Difference—1.87	bushels	Rainfall—May to August—11.84 inches					
Cathy Mitchell, Preeceville								
8	8	Redwood	27.5	—	26	51	4 CW	F.
		Norland	20.9	—	28	55	3 CW	F.
		Bolley	17.3	—	25	53	3 CW	F.
		S-5436	26.4	—	26	54	3 CW	F.
		Summit	25.0	—	22	55	3 CW	F.
Necessary	Difference—3.94	bushels	Rainfall—May to August—11.62 inches					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
8	1	Donald Purich, Wroxton						
8	6	Linda Blaz, Tadmore						

## WHEAT POOL DISTRICT 9

Marvin and Ronald Horvath, Leross								
9	3	Redwood	13.8	109	18	53	4 CW	F.
		Norland	13.6	109	19	53	4 CW	F.
		Bolley	9.0	109	18	55	3 CW	F.
		S-5436	13.5	113	17	54	4 CW	F.
		Summit	9.0	109	17	54	4 CW	F.
Necessary Difference—1.73 bushels				Rainfall—May to August—11.01 inches				
Myron Sereda, West Bend								
9	9	Redwood	—	—	21	56	1 CW	—
		Norland	—	—	22	57	1 CW	—
		Bolley	—	—	20	56	1 CW	—
		S-5436	—	—	21	57	1 CW	—
		Summit	—	—	18	56	1 CW	—
Test damaged by weather—yields not reliable				Rainfall—May to August—9.72 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
9	2	Raymond Van Luven, Dysart						
9	4	Warren Fisher, Gibbs						
9	7	Wayne and John Biyak, Raymore						

## WHEAT POOL DISTRICT 10

<b>Dennis R. O'Brien, Gilroy</b>								
10	2	Redwood	6.0	89	20	55	1 CW	—
		Norland	5.6	91	18	57	1 CW	—
		Bolley	6.1	89	20	56	1 CW	—
		S-5436	4.9	91	20	55	1 CW	—
		Summit	7.0	88	18	56	1 CW	—
Necessary Difference—.78 bushels			Rainfall—May to August—7.61 inches					

# WHEAT POOL DISTRICT 10—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
Gary Jaskela, Dinsmore								
10	4	Redwood	12.5	—	16	55	1 CW	—
		Norland	10.5	—	16	56	1 CW	—
		Bolley	9.4	—	18	55	1 CW	—
		S-5436	13.6	—	18	56	1 CW	—
		Summit	11.5	—	15	54	1 CW	—
Necessary Difference—1.17 bushels			Rainfall—May to August—5.62 inches					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
10	6	Owen Akre, Strongfield						
10	7	Lyle Johnson, Davidson						
10	9	Garry Edwards, Bladworth						

# WHEAT POOL DISTRICT 11

Wendell and Wilfred Massey, Eston								
11	3	Redwood	7.9	—	12	51	4 CW	F.
		Norland	5.3	—	12	54	3 CW	F.
		Bolley	3.8	—	12	54	3 CW	F.
		S-5436	7.7	—	13	54	4 CW	F.
		Summit	4.5	—	13	55	3 CW	F.
Necessary	Difference—1.04 bushels			Rainfall—May to August—7.69 inches				
Leslie Sparks, Zealandia								
11	7	Redwood	6.4	110	16	53	2 CW	F.
		Norland	7.0	103	16	54	2 CW	F.
		Bolley	5.5	107	16	54	1 CW	—
		S-5436	6.8	108	17	54	3 CW	F.
		Summit	6.0	101	14	55	1 CW	—
Necessary	Difference—.98 bushels			Rainfall—May to August—5.42 inches				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
11	5	Joe J. Friedt, Alsask						
11	9	James Bosch, Dodsland						

# WHEAT POOL DISTRICT 12

Beverly Tebb, Biggar								
12	1	Redwood	13.4	100	—	53	3 CW	F.
		Norland	13.7	100	—	54	3 CW	F.
		Bolley	11.0	100	—	54	1 CW	—
		S-5436	14.1	100	—	53	3 CW	F.
		Summit	13.2	100	—	54	3 CW	F.
Necessary Difference—1.86 bushels			Rainfall—May to August—6.35 inches					
Larry Bingham, Cutknife								
12	9	Redwood	—	—	—	54	4 CW	F.
		Norland	—	—	—	52	4 CW	F.
		Bolley	—	—	—	53	4 CW	F.
		S-5436	—	—	—	55	4 CW	F.
		Summit	—	—	—	53	4 CW	F.
Test damaged by birds—yields not reliable			Rainfall—May to August—8.30 inches					
Ray Cote, Delmas								
12	10	Redwood	10.1	89	19	54	4 CW	F.
		Norland	12.8	86	22	54	4 CW	F.
		Bolley	5.9	92	19	53	4 CW	F.
		S-5436	12.5	91	19	53	4 CW	F.
		Summit	11.4	91	17	54	4 CW	F.
Necessary Difference—2.98 bushels			Rainfall—May to August—8.01 inches					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
12	4	Roy Gintaut, Luseland						

## WHEAT POOL DISTRICT 13

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Leslie Eaton, Leroy</b>								
13	1	Redwood	29.1	114	30	57	2 CW	F.
		Norland	31.3	114	30	58	2 CW	F.
		Bolley	20.3	104	30	56	2 CW	F.
		S-5436	30.5	114	30	57	2 CW	F.
		Summit	26.6	104	30	57	2 CW	F.
Necessary	Difference—2.66	bushels			Rainfall—May to August—9.18	inches		
<b>Anthony and Agnes Walliser, Forslund</b>								
13	4	Redwood	16.2	96	20	57	1 CW	—
		Norland	16.9	96	20	58	1 CW	—
		Bolley	11.9	82	19	57	1 CW	—
		S-5436	16.4	96	21	58	1 CW	—
		Summit	14.5	83	19	57	1 CW	—
Necessary	Difference—1.71	bushels			Rainfall—May to August—5.60	inches		
<b>Frances Chapple, Grandora</b>								
13	6	Redwood	8.5	103	21	55	2 CW	G.
		Norland	8.7	104	20	55	2 CW	G.
		Bolley	7.8	89	19	56	1 CW	—
		S-5436	7.5	100	20	55	2 CW	G.
		Summit	9.3	89	17	56	1 CW	—
Yield Differences not significant					Rainfall—May to August—6.36	inches		
<b>Ronald Gehlen, Humboldt</b>								
13	10	Redwood	23.8	—	25	56	1 CW	—
		Norland	23.0	—	27	56	1 CW	—
		Bolley	18.0	—	24	56	1 CW	—
		S-5436	25.6	—	26	57	1 CW	—
		Summit	21.0	—	22	56	1 CW	—
Necessary	Difference—1.86	bushels			Rainfall—May to August—10.81	inches		
<b>Test discarded on account of damage by flooding, pests, hail, drought or other causes:</b>								
13	11	Dwayne Mumby, St. Brieux						

## WHEAT POOL DISTRICT 14

<b>Pat Clift, Melfort</b>								
14	8	Redwood	—	113	—	51	4 CW	F.
		Norland	—	113	—	50	4 CW	F.
		Bolley	—	113	—	48	4 CW	F.
		S-5436	—	97	—	51	4 CW	F.
		Summit	—	97	—	48	4 CW	F.
Unsatisfactory	germination—yields not reliable					Rainfall—May to August—6.83	inches	
<b>James B. Barber, Ridgedale</b>								
14	10	Redwood	—	—	—	48	4 CW	F.
		Norland	—	—	—	46	4 CW	F.
		Bolley	—	—	—	52	4 CW	F.
		S-5436	—	—	—	50	4 CW	F.
		Summit	—	—	—	52	4 CW	F.
Test damaged—yields not reliable						Rainfall—May to August—5.65	inches	
<b>Tests discarded on account of damage by flooding, pests, hail, drought or other causes:</b>								
14	4	Dennis Downey, McKague						
14	9	Joseph Miazga, Gronlid						
14	6	Eric Stadnek, Weekes						

## WHEAT POOL DISTRICT 15

<b>Alfred Klein, Hepburn</b>								
15	4	Redwood	17.0	—	—	54	1 CW	—
		Norland	20.8	—	—	56	1 CW	—
		Bolley	13.0	—	—	55	1 CW	—
		S-5436	20.6	—	—	56	1 CW	—
		Summit	18.3	—	—	54	1 CW	—
Necessary	Difference—2.96	bushels				Rainfall—May to August—Incomplete		



### WHEAT POOL DISTRICT 15—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
<b>Jasper L. Stene, Shellbrook</b>								
15	6	Redwood	—	—	—	53	2 CW	F.
		Norland	—	—	—	54	2 CW	F.
		Bolley	—	—	—	54	2 CW	F.
		S-5436	—	—	—	53	3 CW	F.
		Summit	—	—	—	52	3 CW	F.
Test damaged—yields not reliable			Rainfall—May to August—Incomplete					

<b>Patrick Stefanski, Henribourg</b>								
15	9	Redwood	—	20	—	53	4 CW	F.
		Norland	—	20	—	52	Sample	F.
		Bolley	—	20	—	53	4 CW	F.
		S-5436	—	20	—	53	Sample	F.
		Summit	—	20	—	52	Sample	F.
Test damaged by cattle—yields not reliable			Rainfall—May to August—5.27 inches					

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

15	2	Gaston Hamoline, Domremy
15	11	Ed Podhorodeski, Shipman

### WHEAT POOL DISTRICT 16

<b>Heather and Randy Hosegood, Radisson</b>								
16	1	Redwood	7.1	—	22	54	3 CW	F.
		Norland	7.0	—	21	55	2 CW	F.
		Bolley	5.9	—	22	54	2 CW	F.
		S-5436	7.6	—	22	55	1 CW	—
		Summit	8.0	—	21	55	1 CW	—
Necessary Difference—.85 bushels			Rainfall—May to August—6.88 inches					

<b>Baden Weston, Maidstone</b>								
16	5	Redwood	24.4	—	—	55	3 CW	F.
		Norland	24.7	—	—	56	2 CW	F.
		Bolley	19.4	—	—	54	1 CW	—
		S-5436	27.2	—	—	56	2 CW	F.
		Summit	22.8	—	—	55	2 CW	F.
Necessary Difference—4.07 bushels			Rainfall—May to August—6.12 inches					

<b>Reginald Hoegl, Hillmond</b>								
16	6	Redwood	—	—	—	55	3 CW	F.
		Norland	—	—	—	54	3 CW	F.
		Bolley	—	—	—	54	3 CW	F.
		S-5436	—	—	—	56	3 CW	F.
		Summit	—	—	—	55	3 CW	F.
Test damaged by frost—yields not reliable			Rainfall—May to August—8.35 inches					

<b>David Page, Mullingar</b>								
16	10	Redwood	4.1	92	13	56	1 CW	—
		Norland	4.1	92	14	56	1 CW	—
		Bolley	2.5	92	13	56	1 CW	—
		S-5436	4.6	92	12	56	1 CW	—
		Summit	3.0	92	14	57	1 CW	—
Necessary Difference—.65 bushels			Rainfall—May to August—6.97 inches					

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

16	3	Donald R. Stirton, North Battleford
16	11	Barry Dallyn, Four Corners.

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